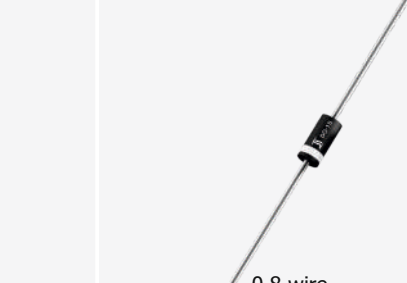
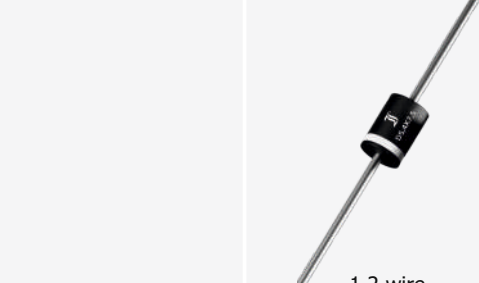
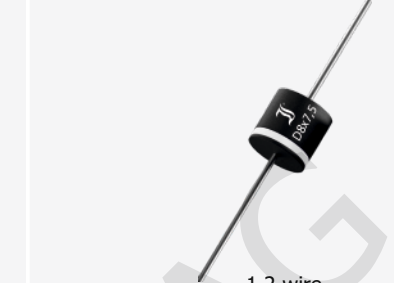
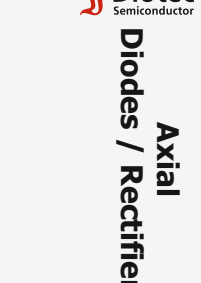
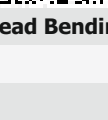


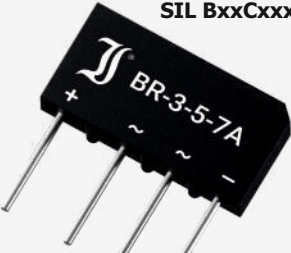
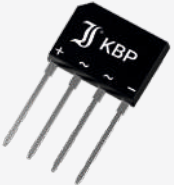
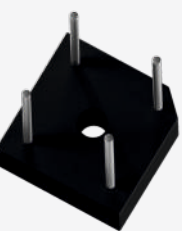
Ø x L [mm]		Ø 1.6 x 3.5			Ø 2.5 x 5.0			2.8 x 1.8			4.6 x 2.5			4.5 x 2.7				4.6 x 3.7				7.2 x 5.8				L x W [mm]		
SMD Diodes/Rectifier		DO-213AA Plastic MiniMelf			DO-213AB Plastic Melf			SOD-123FL			DO-221AC SMAF			DO-214AC SMA				DO-214AA SMB				DO-214AB SMC				SMD Diodes/Rectifier		
																												
I _{FAV}		0.5 A	1 A	1 A	1 A	2 A	3 A	1 A	1 A	1 A	1 A	1 A	1 A	1.5 A	2 A	2 A	3 A	5 A	3 A	5 A	8 A	I _{FAV}						
Standard Recovery	V _{RRM} 50	GL34A	GL1A	AL1A ¹⁾	SM4001		SM5400	SL1A	ST1A	M1*	S1A					S2A	S3ASMB	S5ASMB	S3A	S5A	S8A	50 V _{RRM}						
	100	GL34B	GL1B	AL1B ¹⁾	SM4002		SM5401	SL1B	ST1B	M2*	S1B					S2B	S3BSMB	S5BSMB	S3B	S5B	S8B	100						
	200	GL34D	GL1D	AL1D ¹⁾	SM4003	SM5059	SM5402	SL1D	ST1D	M3*	S1D	BYG10D ¹⁾				S2D	S3DSMB	S5DSMB	S3D	S5D	S8D	200						
	400	GL34G	GL1G	AL1G ¹⁾	SM4004	SM5060	SM5404	SL1G	ST1G	M4*	S1G	BYG10G ¹⁾				S2G	S3GSMB	S5GSMB	S3G	S5G	S8G	400						
	600	GL34J	GL1J	AL1J ¹⁾	SM4005	SM5061	SM5406	SL1J	ST1J	M5*	S1J	BYG10J ¹⁾				S2J	S3JSMB	S5JSMB	S3J	S5J	S8J	600						
	800	GL34K	GL1K	AL1K ¹⁾	SM4006	SM5062	SM5407	SL1K	ST1K	M6*	S1K	BYG10K ¹⁾				S2K	S3KSMB	S5KSMB	S3K	S5K	S8K	800						
	1000	GL34M	GL1M	AL1M ¹⁾	SM4007	SM5063	SM5408	SL1M	ST1M	M7*	S1M	BYG10M ¹⁾	S2MSMA			S2M	S3MSMB	S5MSMB	S3M	S5M	S8M	1000						
	1300			¹⁾	SM513	1 A				S1T	¹⁾					S2T			S3T	S5T		1300						
	1600			Controlled Avalanche Characteristic	SM516	AM2000 ¹⁾ ^{QR}			1A in Power SOD-323: see "Small Signal"		* Budget	S1W	Controlled Avalanche Characteristic			S2W	Standard Recovery		S3W	S5W		1600						
	1800				SM518	SM3000 (3000 V) ^{QR}				Device	S1X			S2X			S3X	S5X		1800								
[V] 2000				SM2000 SM2000GP SM4000 (4000 V) ^{QR}						S1YL*	S1Y	BYG10Y ¹⁾			S2Y			S3Y	S5Y		2000 [V]							
I _{FAV}		0.5 A	1 A	1 A	1 A	2 A		1 A		1 A		2 A				2 A		3 A			I _{FAV}							
Fast Recovery	V _{RRM} 50	RGL34A	RGL1A	RAL1A ¹⁾	SA154	 ^{QR} App Note Smart Meter		FRL1A		FR1A						FR2A		FR3A			50 V _{RRM}							
	100	RGL34B	RGL1B	RAL1B ¹⁾	SA155			FRL1B		FR1B						FR2B		FR3B			100							
	200	RGL34D	RGL1D	RAL1D ¹⁾	SA156			FRL1D		FR1D						FR2D		FR3D			200							
	400	RGL34G	RGL1G	RAL1G ¹⁾	SA157			FRL1G		FR1G						FR2G		FR3G			400							
	600	RGL34J	RGL1J	RAL1J ¹⁾	SA158			FRL1J		FR1J						FR2J		FR3J			600							
	800	RGL34K	RGL1K	RAL1K ¹⁾	SA159		FRL1K		FR1K						FR2K		FR3K			800								
	1000	RGL34M	RGL1M	RAL1M ¹⁾	SA160		FRL1M		FR1M				FR2MSMA		FR2M		FR3M			1000								
	1200					SA261															1200							
	1300							Fast Recovery					FR2TSMA			Products in bold are available in AEC-Q101 qualified version – add suffix -AQ –						1300						
	1400		More packages see "Small Signal Diodes"	¹⁾		SA262				¹⁾			FR2WSMA								1400							
1600			Controlled Avalanche Characteristic		SA263				Controlled Avalanche Characteristic			FR2XSMA								1600								
1800					SA264							FR2YSMA								1800								
[V] 2000					SA265															2000 [V]								
I _{FAV}		0.2 A	0.5 A	1 A	1 A			1 A	1 A	1 A	1 A	1 A	1 A	1 A	1.5 A	2 A	2 A	2 A	2 A	3 A	3 A	3 A	I _{FAV}					
Ultrafast Recovery	V _{RRM} 50	BAV100	EGL34A	EGL1A	EAL1A ¹⁾	SUF4001		USL1A		UST1A	US1A	ER1A	ES1A		ES2ASMA	US2A	ER2A	ES2A	ES3ASMB	US3A	ER3A	ES3A	50 V _{RRM}					
	100	BAV101	EGL34B	EGL1B	EAL1B ¹⁾	SUF4002		USL1B	ERL1B	UST1B	US1B	ER1B	ES1B	ES1C	ES2BSMA	US2B	ER2B	ES2B	ES2C	ES3BSMB	US3B	ER3B	ES3B ES3C	100/150				
	200	BAV102	EGL34D	EGL1D	EAL1D ¹⁾	SUF4003		USL1D	ERL1D	UST1D	US1D	ER1D	ES1D	BYG20D ¹⁾	ES2DSMA	US2D	ER2D	ES2D		ES3DSMB	US3D	ER3D	ES3D	200				
	300	BAV103				Ultrafast Recovery								ES1F	ER2DSMA				ES2F			ES3F		300				
	400		EGL34G	EGL1G	EAL1G ¹⁾		SUF4004		USL1G		UST1G	US1G	ER1G	ES1G	BYG20G ¹⁾	ES2GSMA	US2G	ER2G	ES2G	ES3GSMB	US3G	ER3G	ES3G	400				
	600			EGL1J	EAL1J ¹⁾		SUF4005		USL1J	ERL1J	UST1J	US1J	ER1J	ES1J	BYG20J ¹⁾	ES2JSMA	US2J	ER2J	ES2J	ES3JSMB	US3J	ER3J	ES3J	600				
	800			EGL1K	EAL1K ¹⁾		SUF4006		USL1K		UST1K	US1K	ER1K				US2K	ER2K	4 A	US3K	ER3K		800					
	1000			EGL1M	EAL1M ¹⁾		SUF4007		USL1M		UST1M	US1M	ER1M	UM7*	1 A		US2M	ER2M	MURS460SMB	US3M	ER3M		1000					
[V] 1300														BYG23T ¹⁾				(600 V)				1300 [V]						
I _{FAV}		0.5 A	1 A	2 A	1 A	1 A	2 A	3 A	5 A	1 A	1 A	3 A		3 A		2 A	3 A	5 A	5 A	3 A	3 A	5 A	8 A	8 A	I _{FAV}			
Schottky Barrier	V _{RRM} 20	SGL34-20	SGL1-20		SMS120	SM5817	SMS220	SMS320		SKL12	SKL32		SK12		SL32SMA-3G	SK22	SK32SMB	SL52-3G		SK32		SL82-3G		20 V _{RRM}				
	30	SGL34-30	SGL1-30		SMS130	SM5818	SMS230	SMS330		SLL13	SKL13	SKL33		SK13			SK23	SK33SMB		SK33				30				
	40	SGL34-40	SGL1-40	SGL2-40-3G	SMS140	SM5819	SMS240	SMS340	SMS540-3G	SKM14	SKL14	SKL34		SKT34		SK14		SL34SMA-3G	SK34SMA-3G	SK24	SK34SMB	SL54-3G	SK54-3G	SK34	SK54SMC	SL84-3G	SK84-3G	40
	50	SGL34-50	SGL1-50		SMS150		SMS250	SMS350		SKL15	SKL35		SK15			SK25	SK35SMB			SK35	SK55SMC			SK85	50			
	60	SGL34-60	SGL1-60	SGL2-60-3G	SMS160		SMS260	SMS360	SMS560-3G	SKL16	SKL36		SKT36		SK16			SK36SMA-3G		SK26	SK36SMB		SK56-3G	SK36	SK56SMC	SL = Low V _F Schottky	SK86-3G	60
	90	SGL34-90	SGL1-90		SMS190		SMS290	SMS390		SKL18	SKL38			SK18		SK38SMA	SK28	SK38SMB	3 A	SK58	SK38	SK58SMC		SK88	80			
	100	SGL34-100	SGL1-100	SGL2-100-3G	SMS1100		SMS2100	SMS3100	SMS5100-3G	SKL110	SKL310		SKT310	SK110	SK1H10	SK310SMA-3G	SK210	SK310SMB-3G	SK3H10SMB	SK510-3G	SK310	SK3H10		SK810-3G	100			
	150													SK115	2 A	SK315SMA		SK3H15SMB		SK515	SK315	4 A		SK815	150			
	200	Schottky Barrier							SK..H = High Temperature Schottky		SKL120		1 A		SK220SMA		1 A	2 A			SK420				200			
	[V]								SK..H = -3G Schottky = Reduced Leakage Current						SI01C065T		SI02C120SMA		SI02C065SMB		SI..C.. = Silicon Carbide				650			
																SI01C120SMB	SI02C120SMB						1200 [V]					

Ø x L [mm]		Ø 1.45 x 3.5	Ø 1.6 x 3.5	Ø 2.5 x 5.0	Ø 2.5 x 5.0			2.8 x 1.8	3.4 x 2.5	4.5 x 2.7	4.6 x 3.7	7.2 x 5.8			L x W [mm]		
SMD Diodes & Protection		SOD-80C Glass MiniMelf	DO-213AA Plastic MiniMelf	DO-213AB Glass Melf	DO-213AB Plastic Melf			SOD-123FL	DO-221AC SMAF	DO-214AC SMA	DO-214AA SMB	DO-214AB SMC			SMD Diodes & Protection		
	P_{tot}	500 mW	1 W	1 W	1 W	2 W	3 W	1 W		1.5 W	2 W	3 W				P_{tot}	
	V_Z 1 ...	ZMM1	ZMD1		ZMY1	SMZ1	SZ3C1			Z1SMA1						1 ... V_Z	
	... 3.9	ZMM2.4...3.9	ZMD3.9	ZMY3.9G				MM1Z4728A...4730A								... 3.9	
	... 5.6	ZMM4.3...5.6	ZMD4.3...5.6	ZMY4.3G...5.6G		SMZ5.6		MM1Z4731A...4734A		Z1SMA5.6						... 5.6	
Zener	... 10	ZMM6.2...10	ZMD6.2...10	ZMY6.2G...9.1G		SMZ6.2...10	SZ3C6.2...10	MM1Z4735A...4740A		Z1SMA6.2...10	Z2SMB6.8...10				... 10		
	... 100	ZMM11...75	ZMD11...100		ZMY11...100	SMZ11...100	SZ3C11...100	MM1Z4736A...4756A		Z1SMA11...100	Z2SMB11...200				... 100		
	... 200				ZMY110...200	SMZ110...200	SZ3C110...200								... 200		
	[V]							More see "Small Signal"							[V]		
	P_{PPH}		150 W		400 W	600 W		400 W	600 W	400 W	500/600 W	600 W	1000 W	1500 W	3000 W	5000 W	P_{PPH}
uni-directional	V_{BR}		TGL34-		TGL41-	TGL61-		TPSMF4L	TPSMA6L	P4SMAJ	P6SMAJ	P6SMBJ	1.0SMBJ	1.5SMCJ	3.0SMCJ	5.0SMCJ	V_{BR}
	... 10		6.8A...10A		6.8A...10A	6.8(A)...10(A)		5.0A...8.5A	5.0A...8.5A	5.0A...8.5A	5.0A...8.5A	5.0A...8.5A	5.0A...8.5A	5.0A...8.5A	5.0A...8.5A	5.0A...8.5A	... 10
	... 200		11A...200A		11A...200A	11(A)...200(A)		9.0A...190A	9.0A...85A	9.0A...170A	9.0A...170A	9.0A...170A	9.0A...120A	9.0A...170A	9.0A...170A	12A...170A	... 200
							200 W					TVS unidir.					
	... 520				TGL41-	TGL61-		SMF		P4SMA	P6SMA	P6SMB		1.5SMC			... 550
					220A...520	220(A)...520		5.0A...8.5A		220(A)...550(A)	220A...550A	220A...550A		220A...550A			
TVS								9.0A...220A						Products in bold are available in AEC-Q101 qualified version – add suffix -AQ –			
	... 10		TGL34-		TGL41-	TGL61-		SMF		P4SMAJ	P6SMAJ	P6SMBJ	1.0SMBJ	1.5SMCJ	3.0SMCJ	5.0SMCJ	... 10
	... 200		6.8CA...10CA		6.8CA...10CA	6.8C(A)...10C(A)		5.0CA...8.5CA	TVS bidir.	5.0C(A)...8.5C(A)	5.0CA...8.5CA	5.0CA...8.5CA	5.0CA...8.5CA	5.0CA...8.5CA	5.0CA...8.5CA	5.0CA...8.5CA	... 200
			11CA...200CA		11CA...200CA	11C(A)...200C(A)		9.0CA...170CA		9.0C(A)..170C(A)	9.0CA...170CA	9.0CA...170CA	9.0CA..120CA	9.0CA..170CA	9.0CA..170CA	12C...170CA	... 550
	... 520				TGL41-	TGL61-		SMF		P4SMA	P6SMA	P6SMB		1.5SMC			
					220CA...520C	220C(A)...520C		180CA...220CA		220C(A)..550C(A)	220CA...550CA	220CA...550CA		220CA...550CA			
[V]																	[V]
I_{FAV}		150 200 300 mA															
Small Signal	V_{RRM} 50	LL4150															
	75	LL4151															
	100	LL4148															
		LL4448															
[V]																	
I_{FAV}		15 mA 350 mA															
Schottky	V_{RRM} 20	LL103C															
	30	LL103B															
	40	LL101C LL103A															
	50	LL101B															
[V]																	
I_{FAV}		15 mA 350 mA															
Diodes & Protection	V_{RRM} 20	LL103C															
	30	LL103B															
	40	LL101C LL103A															
	50	LL101B															
[V]																	
I_{FAV}		15 mA 350 mA															
Diacs	V_{BO} 28...36																28...36 V_{BO}
	30...34	BR100-03LLD															30...34
	32...36	BR100-04LLD															32...36
	35...45																35...45
[V]																	[V]

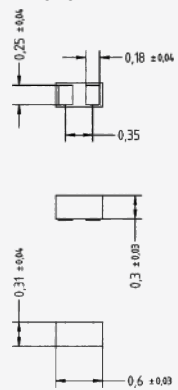
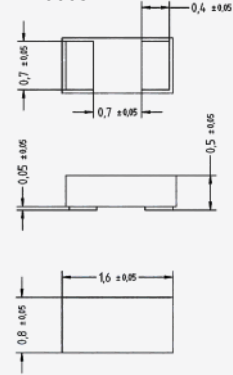
Ø x L [mm]		Ø 1.9 x 3.9		Ø 2.6 x 5.1		Ø 2.6 x 5.1		Ø 3.0 x 6.3			Ø 4.5 x 7.5			Ø 5.4 x 7.5		Ø 8 x 7.5					Ø 8 x 7.5		Ø x L [mm]				
Axial Diodes / Rectifier		DO-35 Glass																							Diodes / Rectifier	Axial	
		0.5 wire																									
I _{FAV}			1 A		1 A		1.5 A 2 A 3 A			3 A 3 A			5 A 8 A		6 A 10 A 12 A 20 A 25 A	15 A 20 A		I _{FAV}									
Standard Recovery	V _{RRM} 50		1N4001S		1N4001	1N4001GP	BYW27-50		1N5391		1N5400K		BY550-50	BY880-50	P600A	P1000A	P1200A	P2000A	P2500A	PX1500A	P2000ATL	50 V _{RRM}					
	100		1N4002S		1N4002	1N4002GP	BYW27-100		1N5392		1N5401K		BY550-100	BY880-100	P600B	P1000B	P1200B	P2000B	P2500B	PX1500B	P2000BTL	100					
	150						BY135																				
	200		1N4003S		1N4003	1N4003GP	BYW27-200		1N5393	1N5059	1N5402K		BY550-200	BY880-200	P600D	P1000D	P1200D	P2000D	P2500D	PX1500D	P2000DTL	200					
	400		1N4004S		1N4004	1N4004GP	BYW27-400		1N5395	1N5060	1N5404K		BY550-400	BY880-400	P600G	P1000G	P1200G	P2000G	P2500G	PX1500G	P2000GTL	400					
	600		1N4005S		1N4005	1N4005GP	BYW27-600		1N5397	1N5061	1N5406K		BY550-600	BY880-600	P600J	P1000J		P2000J	P2500J	PX1500J	P2000JTL	600					
	800		1N4006S		1N4006	1N4006GP	BYW27-800		1N5398	1N5062	1N5407K		BY550-800	BY880-800	P600K	P1000K		P2000K	P2500K	PX1500K	P2000KTL	800					
	1000		1N4007S		1N4007	1N4007GP	BYW27-1000		1N5399		1N5408K		BY550-1000	BY880-1000	P600M	P1000M		P2000M	P2500M	PX1500M	P2000MTL	1000					
	1200						BY134						BY880-1200		P600S	P1000S	Standard Recovery										
	1300				1N4007-13		(600 V)		Products in bold are available in AEC-Q101 qualified version – add suffix -AQ –		BY255						P2500T ¹⁾				1300						
	1400						BY133						BY880-1400		P600U						1400						
	1600				EM513		(1300 V)										Controlled Avalanche Characteristic				1600						
	1800				EM516												P2500W ¹⁾				1800						
	[V] 2000				EM518						BY2000		BY550-2000				P2500X ¹⁾		P2500Y ¹⁾		PX2500Y	2000 [V]					
I _{FAV}					0.5 A 1 A 1 A		0.2 A		1.5 A 2 A 3 A 3 A		5 A		5 A							I _{FAV}							
Fast Recovery	V _{RRM} 50				1N4933						BY500-50		MR820							50 V _{RRM}							
	100				1N4934						BY500-100		MR821							100							
	200				1N4935						BY500-200		MR822							200							
	400				1N4936		BA157				BY500-400		Fast Recovery		MR824						400						
	600				1N4937		BA158				BY500-600			MR826						600							
	800										BY500-800			MR828						800							
	1000				BA159						BY500-1000									1000							
[V] 2000					HV1.5 HV2				BY448G (1650V)		D-BY228G									1500							
																				2000 [V]							
I _{FAV}		150 ... 300 mA			1 A		1 A 2 A		3 A 3 A		4 A		6 A 6 A 12 A	20 A													
Ultrafast Recovery	V _{RRM} 50	1N4150 BAV19			UF4001	UF4001GP	FE1A FE2A		UF5400 FE3A				UF600A	FE6A	F1200A	FX2000A				50 V _{RRM}							
	75	1N4151																		75							
	150		BAV20				Ultrafast Recovery													150							
	100	1N4148 1N4448			UF4002	UF4002GP	FE1B FE2B		UF5401 FE3B				UF600B	FE6B	F1200B	FX2000B				100							
	200		BAV21		UF4003	UF4003GP	MUR120		FE1D		FE2D	UF5402 FE3D		MUR420/L	UF600D	FE6D	F1200D	FX2000D		200							
	300						MUR130				UF5403				FE6F		FX2000F		300								
	400				UF4004	UF4004GP	MUR140		FE1G		FE2G	UF5404 FE3G		MUR440/L	UF600G	FE6G	F1200G	FX2000G		400							
	600				UF4005	UF4005GP	MUR160		UF5406		UF5407		MUR460/L		UF600J					600							
[V] 1000					UF4006	UF4006GP			UF5407						UF600K					800							
					UF4007	UF4007GP			UF5408						UF600M					1000 [V]							
I _{FAV}				1 A		1 A 1 A 2 A		3 A 3 A 5 A 12 A		8 A 15 A		20 A					20 A 25 A 30 A										
Schottky Barrier	V _{RRM} 20			SB120S		SB120 1N5817 SB220		SB320 1N5820 SB520		SB820									20 V _{RRM}								
	30			SB130S		SB130 1N5818 SB230		SB330 1N5821 SB530		SB830									30								
	40			SB140S		SB140 1N5819 SB240		SB340 1N5822 SB540 SB1240-3G		SB840	SB1540-3G						SBX2040-3G SBX2540-3G SBX3040-3G ^{QR}			40							
	45	Schottky Barrier								15SQ045-3G							SBX2045-3G ^{QR}	45 A		45							
	50									80SQ05	12 A						SBX2045-3G ^{QR}										
	60			SB150S		SB150 SB250		SB350 SB550		SB850	SB1250						SBX2050 SBX2550			50							
	90			SB160S		SB160 SB260		SB360 MBR360 SB560-3G		SB860-3G	SB1260						SBX2560-3G			60							
	100			SB190S		SB190 SB290		SB390 SB590		SB890	SB1290										90						
[V] 150				SB1100S		SB1100 SB2100		SB3100 SB5100		SB8100 SB12100									100								
								SB3H150 SB5H150		SB12H40									40 [V]								

Ø x L [mm]		Ø 1.9 x 3.9		Ø 2.6 x 5.1		Ø 3.0 x 6.3		Ø 4.5 x 7.5		Ø 5.4 x 7.5		Ø 8 x 7.5		Ø 8 x 7.5		Ø x L [mm]					
Axial Diodes & Protection		DO-35 Glass		DO-41 Plastic		DO-15		~ DO-201								Axial Diodes & Protection					
		0.5 wire		0.7 wire		0.8 wire		1.2 wire		1.2 wire		1.2 wire		1.6 wire							
		P _{tot} 500 mW		1.3 W 2 W		3 W		5 W						P _{tot}							
		Zener V _Z ... 3.9 ZPD2.7 ... ZPD3.9		ZPY1 ZY1		3EZ1								... 3.9 V _Z							
Zener		... 5.6 ZPD4.3 ... ZPD5.6		ZPY5.6 ZY5.6								Zener		... 5.6		Zener					
		... 10 ZPD6.2 ... ZPD10		ZPY6.2 ... ZPY10 ZY6.2 ... ZY10		3EZ6.2 ... 3EZ10		1N5345B ... 1N5347B				... 10									
		[V] ... 200 ZPD11 ... ZPD75		ZPY11 ... ZPY200 ZY11 ... ZY200		3EZ11 ... 3EZ200		1N5348B ... 1N5388B				... 200 [V]									
		P _{PPM}												P _{PPM}							
uni-directional		... 10		Products in bold are available in AEC-Q101 qualified version – add suffix -AQ –		400 W 600 W		Nomenclature for TVS diodes Suffix "A" – ± 5% tolerance of V _{BR} Bidirectional – Suffix "B" or "CA" BZW & 5KP – Nominal voltage is V _{WM} PxKE & 1.5KE – Nominal voltage is V _{BR}		1500 W		5000 W		... 10		uni-directional					
		... 200				BZW04-5V8...8V5 BZW06-5V8...8V5				1.5KE6.8A...10A		5KP6.5A...8.5A		... 200							
		... 520				P4KE6.8A...10A P6KE6.8A...10A				1.5KE11A...200A		5KP9.0A...110A		... 520							
		... 10				BZW04-9V4...171 BZW06-9V4...171				1.5KE220A...440A				... 10							
bi-directional		... 200				BZW04-188...376 BZW06-188...376		TVS bidir.		1.5KE6.8CA...10CA		5KP6.5CA...8.5CA		... 200		bi-directional					
		... 520				P4KE220A...440A P6KE220(A)...440(A)				1.5KE11CA...200CA		5KP9.0CA...120CA		... 520							
		[V]				BZW04-5V8B...8V5B BZW06-5V8B...8V5B				1.5KE220CA...440CA				[V]							
		P _{PPM}				BZW04-9V4B...171B BZW06-9V4B...171B															
Snubber				A snubber circuit is used to protect the switching MOSFET on the primary side of flyback converters. The part on the left offers a 2-in-1 solution, combining a TVS diode with an ultrafast rectifier in a single package.		600 W		400 W		700 W		750 W		750 W		Lead Bending					
						PKC-136		F5K120		F11K120		F12K120		FX20K120							
						Snubber Circuit		I _{FAV} = 5 A		I _{FAV} = 11 A		I _{FAV} = 12 A		I _{FAV} = 20 A							
						V _{BR} = 160 V		Protectifiers®		Protectifiers® are "Protected Rectifiers": They combine a low forward voltage drop with high reverse robustness (TVS characteristic) and Fast Recovery switching.											
		P _{tot} 1 W																			
Diacs		28...36 DB3		Diac												Diac					
		30...36 DB31 DB32																			
		[V] 35...45 DB4																			
		Diacs, also called Trigger Diodes, are used to trigger Triacs or Thyristors at a defined AC mains level.																			

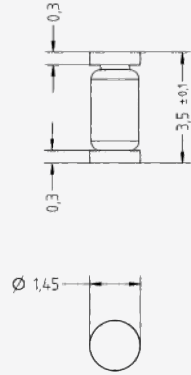
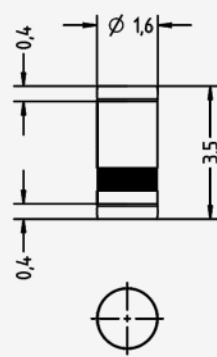
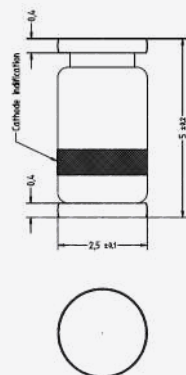
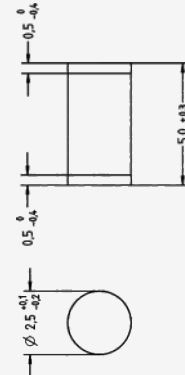
Ø 2.5		Ø 3		DO-41	DO-15	Ø 4.2 x 15		Ø 7.3 x 22		Ø 55 x 23		Ø 49 x 258		Press-fit										
High Voltage Rectifier									High Voltage Rectifier						Power Rectifier			Power Rectifier						
	I _{FAV}	5 mA	20 mA	5 mA	20 mA	200 mA	200 mA	120 mA			0.5 A	0.3 A	0.5 A	1 A					I _{FAV}	4 A	I _{FAV}	I _{FAV}		
	V _{RRM}	...4000	DD300			HV3	HV4												BY4		3200	V _{RRM}	100	V _{RRM}
	...	6000	DD600				HV5	HV6						Standard					BY6				200	
Standard Recovery	8000	2CL71A		2CL71				FBY8																
	10000	2CL72A					DD1000		Fast				BY8											
	12000	2CL73A					DD1200						BY12											
	14000	Superfast					DD1400																	
Superfast Recovery	16000							2CL2FL																
	[V] 18000							(15000 V)																

L x W [mm]		3.0 x 3.0		4.7 x 3.9				5.0 x 4.4				8.3 x 6.4				8.5 x 6.4		Ø 9 x 5.1	32 x 17			L x W [mm]	
SMD Bridge Rectifier		MicroDIL		MiniDIL SLIM ~ TO-269AA				ABS								DIL						Bridge Rectifier	
		Pitch 1.27		Pitch 2.54				Pitch 4.0				Pitch 5.1				Pitch 5.1		Pitch 5.0	Pitch 10 7.5 7.5				
		I_{FAV}	0.5 A	0.5 A	0.8 A	0.8 A	1 A	0.8 A	1.5 A	1.5 A	2 A	1 A	1.5 A	2.3 A	1 A	1 A	1 A	2 A	3.7 A / 2.2 A	5 A / 3.3 A	7 A / 4 A		I_{FAV}
Standard Recovery	V_{RRM}	80	MYS40	S40 S40F								B40S	B40S15A	B40S2A	B40FS	B40D	B40FD	B40R	B40C3700-2200	B40C5000-3300	B40C7000-4000	80 V_{RRM}	
		160	MYS80	MB2S	S80	S80F	ABS2 ABS15D ABS20D				B80S	B80S15A	B80S2A	B80FS	B80D	B80FD	B80R	B80C3700-2200	B80C5000-3300	B80C7000-4000	160		
		250	MYS125	(200 V)	S125	S125F	S125K	(200 V)	(200 V)	(200 V)	B125S	B125S15A	B125S2A	B125FS	B125D	B125FD	B125R	B125C3700-2200	B125C5000-3300	B125C7000-4000	250		
		400		MB4S	Fast Recovery		Protectifiers®	ABS4	ABS15G	Fast Rec.	ABS20G	Fast Recovery			B500D	Fast Recovery					400		
		600	MYS250	MB6S	S250	S250F	S250K	ABS6	ABS15J	ABS20J		B250S	B250S15A	B250S2A	B250FS	B250D	B250FD	B250R	B250C3700-2200	B250C5000-3300	B250C7000-4000	600	
		800	MYS380	MB8S	S380	S380F	ABS8 ABS15K ABS20K				B380S	B380S15A	B380S2A	B380FS	B380D	B380FD	B380R	B380C3700-2200	B380C5000-3300	B380C7000-4000	800		
		1000		MB10S	S500	ABS10 ABS15M ABSF15M ABS20M				B500S	B500S15A	B500S2A	Protectifiers® are "Protected Rectifiers": They combine a low forward voltage drop with high reverse robustness (TVS characteristic) and Fast Recovery switching.			B500R	B500C3700-2200	B500C5000-3300	B500C7000-4000	1000			
		1200						ABS10-16	ABS15S								Standard Recovery			1200			
[V] 2000							(1600V)	ABS15Y													2000 [V]		
L x W [mm]		14.5 x 10.5		19 x 10		30 x 20								21.5 x 18.2						L x W [mm]			
Bridge Rectifier		KBP		GBS		GBI								GBU						Bridge Rectifier			
		Pitch 4 4 4		Pitch 5 5 5		Pitch 10 7.5 7.5								Pitch 5 5 5									
		I_{FAV}	2 A	3 A	2.3 A / 1.5 A	4 A	10 A	15 A	20 A	25 A	35 A	40 A	40 A	50 A	4 A	6 A	8 A	8 A	10 A	12 A	15 A	I_{FAV}	
Standard Rec.	V_{RRM}	50			B40C2300-1500A/B (80V)	GBS4A	GBI10A	GBI15A	GBI20A	GBI25A	GBI35A				GBU4A	GBU6A	GBU8A	Protectifiers®	GBU10A	GBU12A	GBV15A*	50 V_{RRM}	
		100			B80C2300-1500A/B (160V)	GBS4B	GBI10B	GBI15B	GBI20B	GBI25B	GBI35B	Standard Recovery			GBU4B	GBU6B	GBU8B		GBU10B	GBU12B	GBV15B*	100	
		200	KBP202G	KBP302G	B125C2300-1500A/B (250V)	GBS4D	GBI10D	GBI15D	GBI20D	GBI25D	GBI35D	GBI40D	GBI40W		GBU4D	GBU6D	GBU8D	GBUK8D	GBU10D	GBU12D	GBV15D*	200	
		400	KBP204G	KBP304G		GBS4G	GBI10G	GBI15G	GBI20G	GBI25G	GBI35G	GBI40G	(1600V)	GBI50G	GBU4G	GBU6G	GBU8G	GBUK8G	GBU10G	GBU12G	GBV15G*	400	
		600	KBP206G	KBP306G	B250C2300-1500A/B	GBS4J	GBI10J	GBI15J/-LV/-LX	GBI20J	GBI25J/-LV/-LX	GBI35J/-LV	GBI40J	25 A	GBI50J	GBU4J	GBU6J	GBU8J	2 A	GBU10J	GBU12J	GBV15J*	600	
		800	KBP208G	KBP308G	B380C2300-1500A/B	GBS4K	GBI10K	GBI15K	GBI20K	GBI25K	GBI35K	GBI40K	GBI25W	GBI50K	GBU4K/-LV	GBU6K/-LV	GBU8K/-LV	GBU2K/-LV	GBU10K/-LV	GBU12K	GBV15K*	800	
		[V] 1000	KBP210G	KBP310G	B500C2300-1500A/B	GBS4M	GBI10M	GBI15M	GBI20M	GBI25M	GBI35M	GBI40M	(1600V)	GBI50M	GBU4M	GBU6M	GBU8M		GBU10M	GBU12M	GBV15M*	1000 [V]	
L x W [mm]		15.2 x 15.2		19 x 19		28.6 x 28.6		28.6 x 28.6		35 x 25				28.5 x 28.5			L x W [mm]						
Bridge Rectifier		KBPC		KBPC-FP		KBPC-WP		DBI				DB					Bridge Rectifier						
		Pitch 10.9		Pitch 18.1		Pitch 18.0		Pitch 7.5 7.5 7.5 7.5				Pitch 16.0											
		I_{FAV}	6 A	8 A	10 A	10 A / 15 A / 25 A	35 A	50 A	I_{FAV}	I_{FAV}	20 A	25 A	15 A / 25 A	35 A	50 A	I_{FAV}							
Standard Recovery	V_{RRM}	100	KBPC600	KBPC800	PB1000	KBPC10/15/2501FP WP	KBPC3501FP WP	KBPC5001FP	100 V_{RRM}	V_{RRM} 100	Pinning Version B		Pinning Version A	DB15/25-01	DB35-01	100 V_{RRM}							
		200	KBPC601	KBPC801	PB1001	KBPC10/15/2502FP WP	KBPC3502FP WP	KBPC5002FP	200	200	+ ~ ~ ~ -		- ~ ~ ~ +	DB15/25-02	DB35-02	200							
		400	KBPC602	KBPC802	PB1002	KBPC10/15/2504FP WP	KBPC3504FP WP	KBPC5004FP	400	400				DB15/25-04	DB35-04	400							
		600	KBPC604	KBPC804	PB1004	KBPC10/15/2506FP WP	KBPC3506FP WP	KBPC5006FP	600	600				DB15/25-06	DB35-06	600							
		800	KBPC606	KBPC806	PB1006	KBPC10/15/2508FP WP	KBPC3508FP WP	KBPC5008FP WP	800	800	DBI20-08B	DBI25-08A		DB15/25-08	DB35-08	DB50-08	800						
		1000	KBPC608	KBPC808	PB1008	KBPC10/15/2510FP WP	KBPC3510FP WP	KBPC5010FP WP	1000	1000	DBI20-12B	DBI25-12A		DB15/25-10	DB35-10		1000						
		1200	KBPC610	KBPC810	PB1010	KBPC10/15/2512FP WP	KBPC3512FP WP	KBPC5012FP	1200	1200	DBI20-16B	DBI25-16A		DB15/25-12	DB35-12	DB50-12	1200						
[V] 1800						KBPC10/15/2514FP WP	KBPC3514FP WP	Standard Recovery		1400				DB15/25-14	DB35-14		1400						
						KBPC10/15/2516FP WP	KBPC3516FP WP			1600				DB15/25-16	DB35-16	DB50-16	1600						
						KBPC10/15/2518WP			1800 [V]	[V] 1800				DB25-18			1800 [V]						

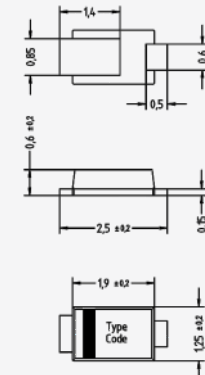
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0201 mil		DFN1006-2		DFN1006-3		DFN2510-10				Gull Wing Leads		Flat Leads			
Diodes														Diodes	
ESD unidirectional						ESD Arrays		ESD5Z3V3 ... ESD5Z24		ESD3Z3V3GW		ESD3Z5V0 ... ESD3Z12		ESD unidirectional	
ESD - unidir.		ESD9L1P8		DI5315-02F				ESD1V8WT		ESD3Z24GW				ESD - unidir.	
		ESDBK3V3						ESD3V3WT						ESD bidirectional	
						ESD4E02B04		ESD5B5V0WT		ESD3B5V0WS ... ESD3B36WS				ESD - bidir.	
Zener		Zener						MM5Z2V4 ... MM5Z47		MM3BZ18GW MM3BZ27GW		Zener		Zener	
		MM9Z5V6B ... MM9Z47B						MM5Z3V6B ... MM5Z47B		MM3Z3V3GW ... MM3Z27GW		MM3Z2V4 ... MM3Z47			
ESD bidirectional		ESD9BL24P		QR App Note		Products in bold are available in AEC-Q101 qualified version – add suffix -AQ –		Schottky		Schottky		Schottky		Schottky	
ESD - bidir.		ESD03B3Z						1SS405		SD103AWSGW		BAT46WS		SDB13HS	
		ESD05B1Z						Small Signal		SD103AWSGW		BAT54WS		SDB14HS	
		ESD0541Z						1N4148WT		SD103AWSGW		BAS316WS		SDB160WS	
								BAS216WT		SD103AWSGW		BAS316WS		SRL23	
		1N4148HP		ESD Protection				BAS316WT		SD103AWSGW		BAS316WS		SRL1J	
		1N4448HP								SD103AWSGW		BAS316WS		SRL1J	
										SD103AWSGW		BAS316WS		SRL1J	
										SD103AWSGW		BAS316WS		SRL1J	
										SD103AWSGW		BAS316WS		SRL1J	
										SD103AWSGW		BAS316WS		SRL1J	
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0603
0201 mil1608
0603 mil

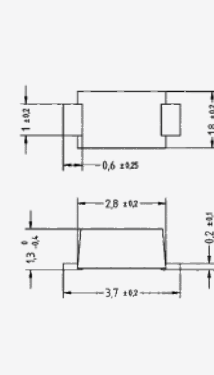
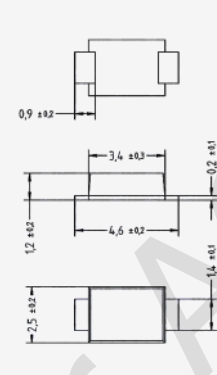
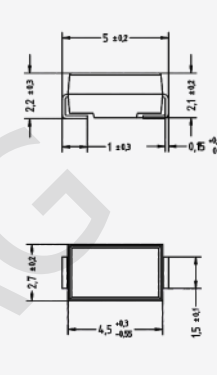
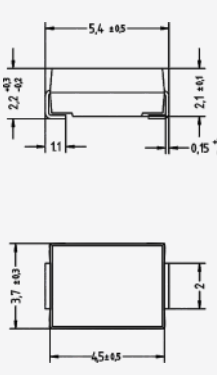
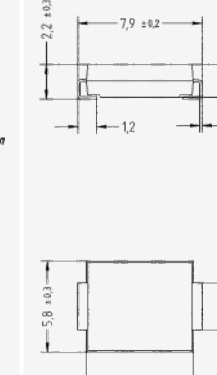
SOD-80C

DO-213AA
MiniMelfDO-213AB
Glass MelfDO-213AB
Melf

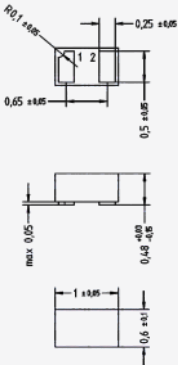
Power SOD-323



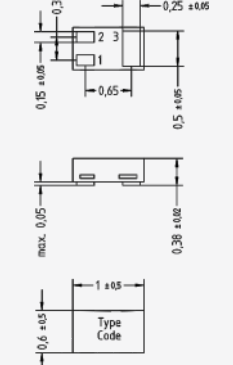
SOD-123FL

DO-221AC
SMAFDO-214AC
SMADO-214AA
SMBDO-214AB
SMC

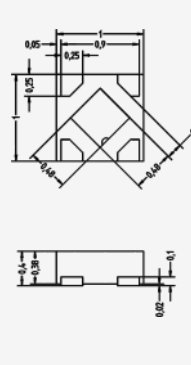
SOD-882 / DFN1006-2



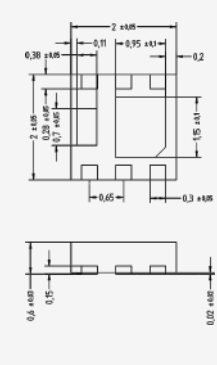
SOT-883 / DFN1006-3



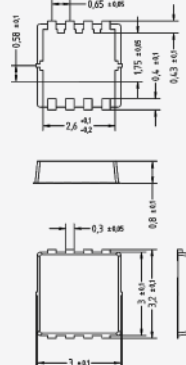
QFN1x1



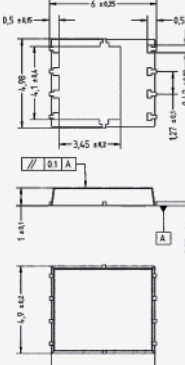
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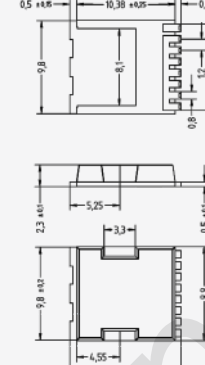
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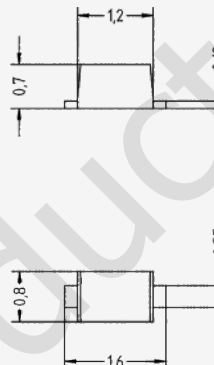
QFN5x6



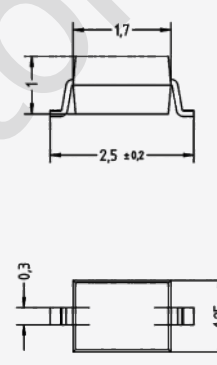
TOLL / ~HSOF-8



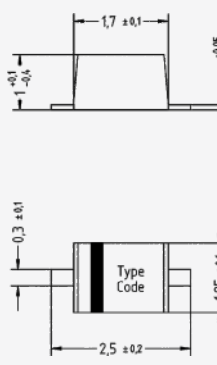
SOD-523



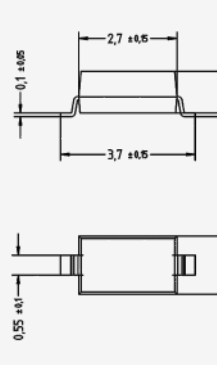
SOD-323



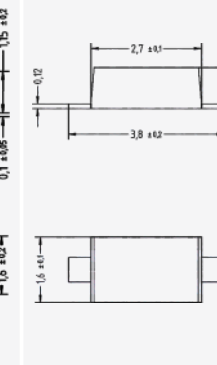
SOD-323F



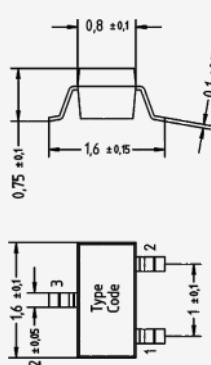
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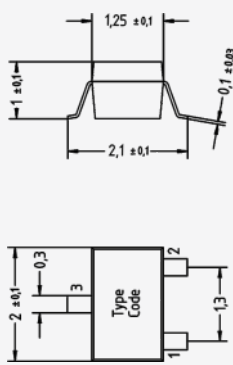
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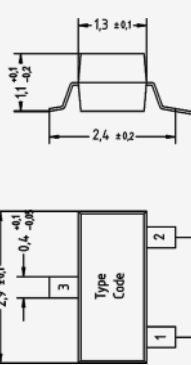
SOT-523



SOT-323



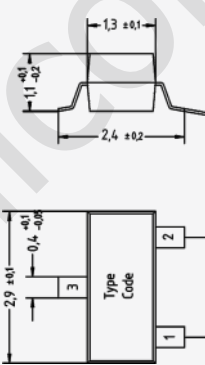
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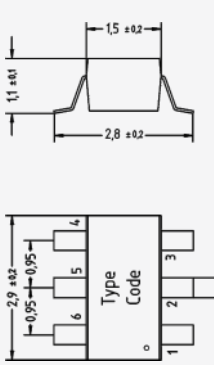
For sizes of all package outlines as well as detailed mechanical and electrical parameters refer to the data sheet of the particular part.
Available on <https://diotec.com/>

Die Maße aller Gehäuse-Bauformen sowie detaillierte mechanische und elektrische Parameter finden Sie im Datenblatt des jeweiligen Artikels.
Erhältlich über <https://diotec.com/>

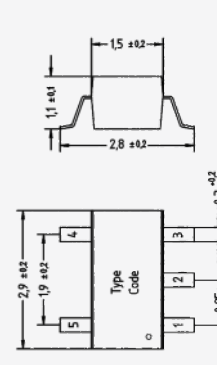
SOT-363



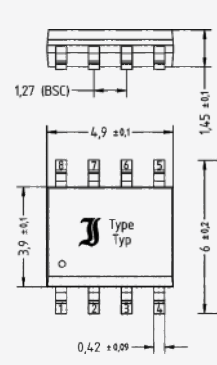
SOT-26 / SOT-457



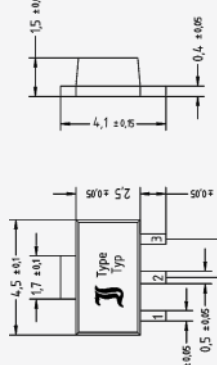
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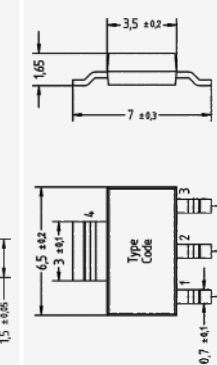
SO-8



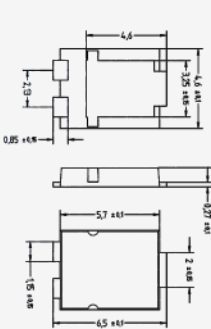
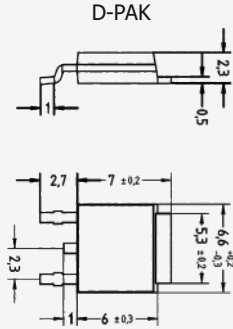
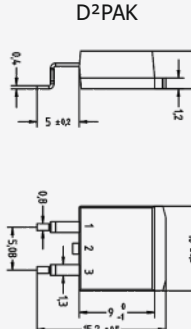
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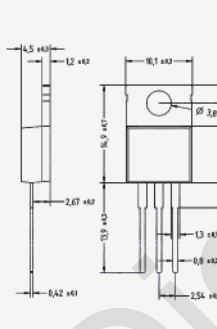
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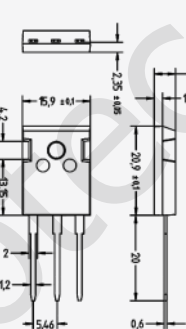
TO-277A

TO-252AA
D-PAKTO-263AB
D²PAK

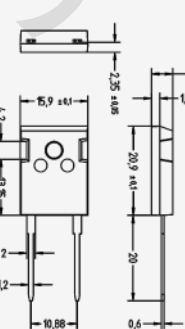
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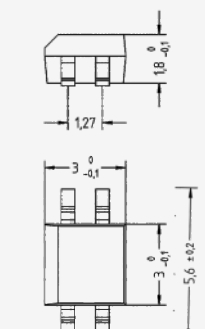
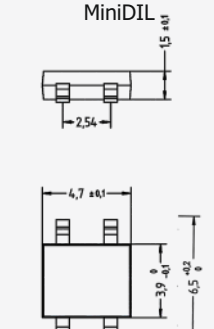
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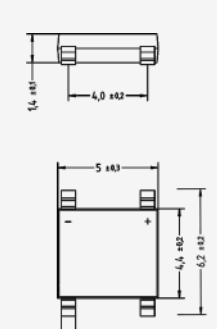
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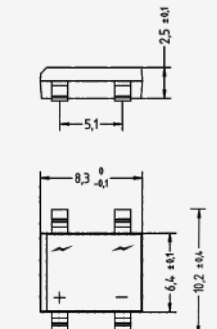
MicroDIL

TO-269AA
MiniDIL

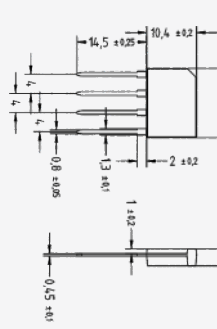
ABS



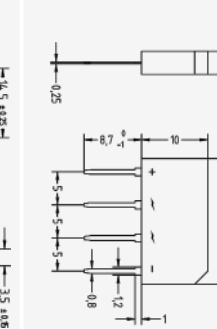
SO-DIL



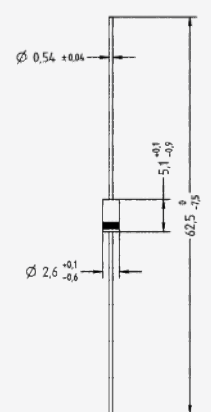
KBP



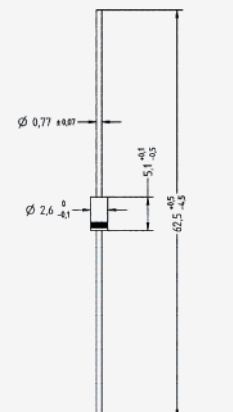
GBS



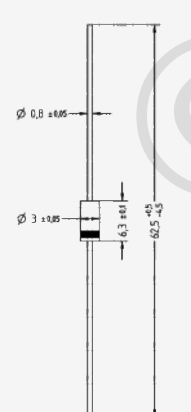
A-405



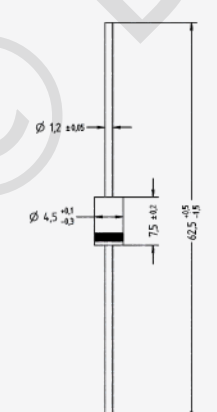
DO-41



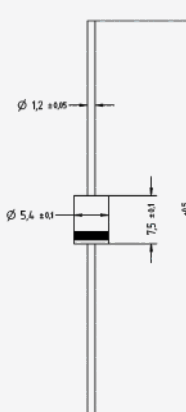
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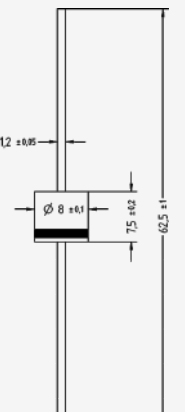
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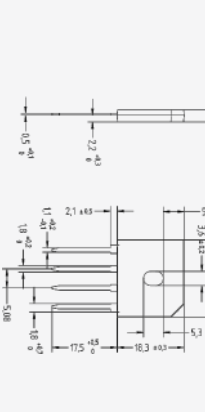
D5.4x7.5



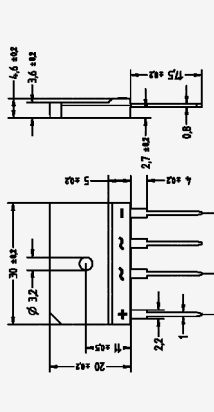
D8x7.5



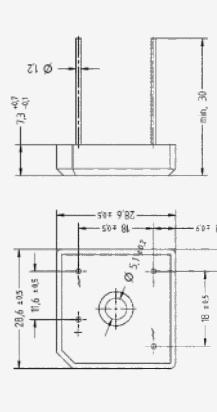
GBU



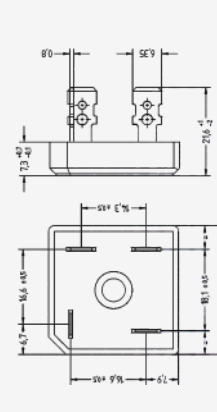
GBI



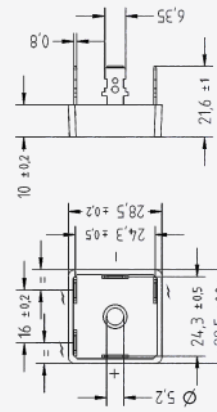
KBPC-W



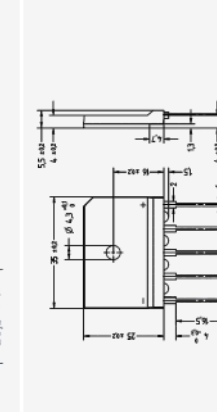
KBPC-F



DB



DBI



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