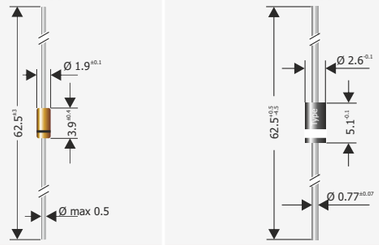
Diotec Semiconductor

Axial Diodes / Rectifier

	DO-35	DO-41	DO-15	~ DO-201	Ø 5.4 x 7.5	Ø 8 x 7.5	Ø 8 x 7.5
	Glass	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic



	I_{FAV}	150 ... 300 mA	1 A			1 A	1.5 A	2 A	3 A	2 A	3 A	3 A	5 A	4/5/8 A	8/12 A	5/6/10/15 A		12 / 20 A	25 A	15 / 20 A	20 / 25 A	30 A	I_{FAV}	
Standard Recovery	V_{RRM} 50		1N4001		BYW27-50		1N5391		1N5400K		1N5400			BY550-50	BY880-50	P600A	P1000A	P2000A	P2500A	PX1500A	P2000ATL		50	V_{RRM}
	100		1N4002		BYW27-100		1N5392		1N5401K		1N5401			BY550-100	BY880-100	P600B	P1000B	P2000B	P2500B	PX1500B	P2000BTL		100	
	200		1N4003	BY135	BYW27-200		1N5393	1N5059	1N5402K		1N5402	BY251		BY550-200	BY880-200	P600D	P1000D	P2000D	P2500D	PX1500D	P2000DTL		200	
	400		1N4004	(150 V)	BYW27-400		1N5395	1N5060	1N5404K		1N5404	BY252		BY550-400	BY880-400	P600G	P1000G	P2000G	P2500G	PX1500G	P2000GTL		400	
	600		1N4005	BY134	BYW27-600		1N5397	1N5061	1N5406K		1N5406	BY253		BY550-600	BY880-600	P600J	P1000J	P2000J	P2500J	PX1500J	P2000JTL		600	
	800		1N4006		BYW27-800		1N5398	1N5062	1N5407K		1N5407	BY254		BY550-800	BY880-800	P600K	P1000K	P2000K	P2500K	PX1500K	P2000KTL		800	
	1000		1N4007		BYW27-1000		1N5399		1N5408K		1N5408			BY550-1000	BY880-1000	P600M	P1000M	P2000M	P2500M	PX1500M	P2000MTL		1000	
	1300		1N4007-13	BY133								BY255				P600S	P1000S		P2500T [1])	[1]) Devices with **Controlled Avalanche** Characteristic			1300	
	1600		EM513									BY1600				(1200 V)	(1200 V)		P2500W [1])				1600	
	1800		EM516									BY1800				P600U			P2500X [1])				1800	
	[V] 2000		EM518									BY2000				(1400 V)			P2500Y [1])				2000 [V]	
Fast Recovery	V_{RRM} 50		1N4933											BY500-50		MR820							50	V_{RRM}
	100		1N4934		**0.5 A**					BY296	BY396			BY500-100		MR821							100	
	200		1N4935		HV1.5 (1500V)					BY297	BY397			BY500-200		MR822							200	
	400		1N4936	BA157	HV2 (2000V)					BY298	BY398			BY500-400		MR824							400	
	600		1N4937	BA158	**0.2 A**	**0.2 A**								BY500-600		MR826							600	
	800				HV3 (3000V)	HV5 (5000V)				BY299	BY399	RGP30K		BY500-800		MR828							800	
	[V] 1000			BA159		HV6 (6000V)						RGP30M		BY500-1000									1000 [V]	
Ultrafast Recov.	V_{RRM} 50	1N4150	BAV19	UF4001			FE1A		FE2A		UF5400	FE3A				UF600A	FE6A	F1200A		FX2000A			50	V_{RRM}
	100	1N4151 (75V)	BAV20 (150V)	UF4002			FE1B		FE2B		UF5401	FE3B				UF600B	FE6B	F1200B		FX2000B			100	
	200	1N4148 (100V)	BAV21	UF4003	MUR120		FE1D		FE2D		UF5402	FE3D		MUR420		UF600D	FE6D	F1200D		FX2000D			200	
	400	1N4448 (100V)		UF4004	MUR140		FE1G		FE2G		UF5404	FE3G		MUR440		UF600G	FE6F	F1200G		FX2000G			400	
	600			UF4005	MUR160						UF5406			MUR460		UF600J	(300V)						600	
	800			UF4006							UF5407					UF600K	FE6G						800	
	[V] 1000			UF4007							UF5408					UF600M	(400V)						1000 [V]	
Schottky Barrier	V_{RRM} 20			SB120S		SB120	1N5817	SB220			SB320	1N5820	SB520	SB820	SB1220								20	V_{RRM}
	30			SB130S		SB130	1N5818	SB230			SB330	1N5821	SB530	SB830	SB1230			**-3G = 3rd Generation Schottky Diodes:** reduced leakage!					30	
	40			SB140S		SB140	1N5819	SB240			SB340	1N5822	SB540	SB840	SB1240	SB1540-3G				SBX2040-3G	SBX2540-3G	SBX3040-3G	40	
	50			SB150S		SB150	(1 A)	SB250			SB350		SB550	SB850	SB1250									
	60			SB160S		SB160		SB260			SB360		SB560	SB860	SB1260	15SQ045-3G		20SQ045-G		SBX2045-3G			45	
	90			SB190S		SB190		SB290			SB390		SB590	SB890	SB1290					SBX2050	SBX2550		50	
	100			SB1100S		SB1100		SB2100			SB3100		SB5100	SB8100	SB12100									
	[V] 150										SB3H150				SB12H40	**High Temperature Schottky**							40 [V]	
	P_{tot}	500 mW	1.3 W	2 W		3 W				5 W													P_{tot}	
Zener	V_z 1 .. 5.6	ZPD2.7 ... ZPD5.6	ZPY1, ZPY5.6	ZY1, ZY5.6		3EZ1																	1 .. 5.6	V_z
	... 10	ZPD6.2 ... ZPD10	ZPY6.2 ... ZPY10	ZY6.2 ... ZY10		3EZ6.2 ... 3EZ10				1N5345B ... 1N5347B													... 10	
	... 200	ZPD11 ... ZPD75	ZPY11 ... ZPY200	ZY11 ... ZY200		3EZ11 ... 3EZ200				1N5348B ... 1N5388B													... 200	
	[V]																						[V]	
	P_{PPM}			400 W				600 W				400 W		1500 W		5000 W			750 W	750 W			P_{PPM}	
TVS	V_{BR} ... 10			BZW04-5V8...8V5 / P4KE6.8(A)...10(A)				BZW06-5V8...8V5 / P6KE6.8(A)...10(A)				**Protectifiers®**		1.5KE6.8(A)...10(A)		5KP6.5(A)...8.5(A)			**Protectifiers®**	**Protectifiers®**			... 10	V_{BR}
	... 200	**uni-directional**		BZW04-9V4...171 / P4KE11(A)...200(A)				BZW06-9V4...171 / P6KE11(A)...200(A)				F5K120		1.5KE11(A)...200(A)		5KP9.0(A)...110(A)			F10K120	FX20K120			... 200	
	... 440			BZW04-188...376 / P4KE220(A)...440(A)				BZW06-188...376 / P6KE220(A)...440(A)				(5A / 120V)		1.5KE220(A)...440(A)					(12A / 120V)	(20A / 120V)			... 440	
	Nomenclature for TVS diodes: No suffix – ±10% tolerance of V_{BR} | Suffix "A" – ±5% tolerance of V_{BR} | Bidirectional version – suffix "B" or "C"																							
	... 10			BZW04-5V8B...8V5B / P4KE6.8C(A)...10C(A)				BZW06-5V8B...8V5B / P6KE6.8C(A)...10C(A)						1.5KE6.8C(A)...10C(A)		5KP6.5C(A)...8.5C(A)							... 10	
	... 200	**bi-directional**		BZW04-9V4B...171B / P4KE11C(A)...200C(A)				BZW06-9V4B...171B / P6KE11C(A)...200C(A)						1.5KE11C(A)...200C(A)		5KP9.0C(A)...120C(A)							... 200	
	[V] ... 520			BZW04-188B...376B / P4KE220C(A)...440C(A)				BZW06-188B...376B / P6KE220C(A)...520C(A)						1.5KE220C(A)...440C(A)									... 550 [V]	

© Diotec Semiconductor AG