

Ultra Fast Recovery Epitaxial Rectifiers (in order of current rating) (cont.)

Type No.	Package Outline	Average Forward Current I_F (AV) max. (1)	Repetitive Peak Reverse Voltage V_{RRM} max.	Non-Repetitive Reverse Avalanche Energy E_{RSM}	Surge (Non-Repetitive) Forward Current I_{FSM} max. (2)	Reverse Recovery Time t_{rr} max.	Voltage Drop V_F max. @ I_F (3)
BYV72E-100 -150 -200	SOT-93	30A*	100V 150V 200V	40mJ	2 x 154A	28ns	0.83V at 14A
BYV44-300* -400 -500	TO-220AB	*30A	300V 400V 500V	—	2 x 200A	50ns	1.1V at 15A
BYV74-300* -400 -500	SOT-93	*30A	300V 400V 500V	—	2 x 150A	50ns	1.1V at 15A
BYT230PIV-200* -300 -400 -600 -800	SOT-227B2	*60A	200V 300V 400V 600V 800V	—	2 x 200A	50ns	1.4V at 30A
						55ns	1.8 at 30A
BYV54V-50* -100 -150 -200	SOT-227B2	*100A	50V 100V 150V 200V	—	2 x 500A	60ns	0.8V at 50A

(1) T_{mb} = max. rated (2) $T_j = T_{j \text{ max.}}$, $t = 10 \text{ ms}$ (3) $T_j = T_{j \text{ max.}}$ *Center-tapped dual diode. $I_{F(AV)}$ max. for each diode leg is one-half of value shown in table.

Double Diffused Rectifiers (in order of current rating)

Type No.	Package Outline	Average Forward Current I_F (AV) max. (1)	Repetitive Peak Reverse Voltage V_{RRM} max.	Surge (Non-Repetitive) Forward Current I_{FSM} max. (2)	Reverse Recovery Time t_{rr} max.	Voltage Drop V_F max. @ I_F (3)
VERY FAST TYPES						
BYD31D G J	SOD-91	0.5A	200V 400V 600V	10A	250ns	1.6V at 1A
BYD43-20	SOD-81	0.64A	2000V	10A	300ns	2.05V at 1A
BYV98	SOD-57	1.1A	2000V	15A	300ns	2.2V at 2A
BYD33D G J K M	SOD-81	1.3A	200V 400V 600V 800V 1000V	20A	250ns	1.3V at 1A
					300ns	
BYD37D G J K M	SOD-87 (SMD)	1.5A	200V 400V 600V 800V 1000V	20A	250	1.3V at 1A
					300	

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