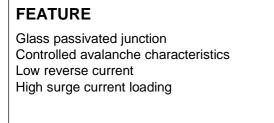
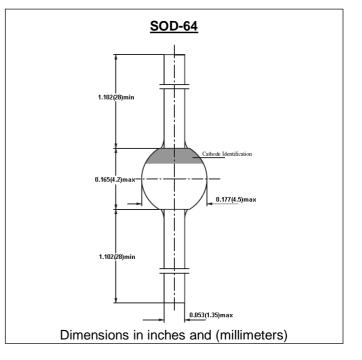
BYW85

SINTERED GLASS JUNCTION GENERAL AVALANCHE RECTIFIER VOLTAGE 800V CURRENT: 3.0A







MECHANICAL DATA

Case: SOD-64 sintered glass case Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C Polarity: color band denotes cathode end Mounting position: any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	BYW85	units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	800	V
Maximum RMS Voltage	V _{RMS}	560	V
Maximum DC blocking Voltage	V _{DC}	800	V
Maximum Average Forward Rectified Current	I _{FAV}	3.0	A
Peak Forward Surge Current at Tp=10ms half sinewave	I _{FSM}	100	A
Maximum Forward Voltage at Forward Current 3A	V _F	1.00	V
Non-repetitive peak reverse avalanche energy at $I_{(BR)R}$ =1A	E _R	20	mJ
Maximum DC Reverse CurrentTa = $25^{\circ}C$ at rated DC blocking voltageTa = $100^{\circ}C$	I _R	1.0 10.0	μΑ
Typical Reverse Recovery Time (Note 1)	Trr	2.0	μS
Typical Thermal Resistance (Note 2)	R _{th(ja)}	25	KW
Storage and Operating Junction Temperature	Tstg, Tj	-65 to +175	°C

Note:

1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

2. I =10mm, T_L = constant

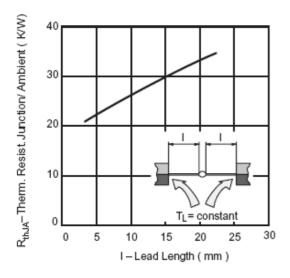


Figure 1. Max. Thermal Resistance vs. Lead Length

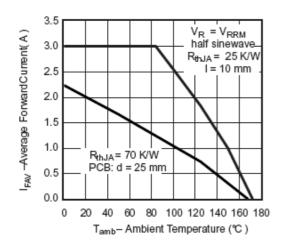


Figure 3. Max. Average Forward Current vs. Ambient Temperature

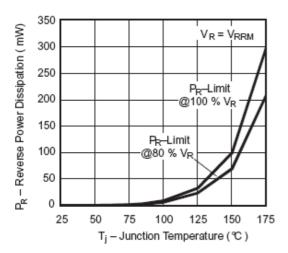


Figure 5. Max. Reverse Power Dissipation vs. Junction Temperature

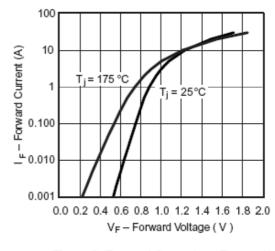


Figure 2. Forward Current vs. Forward Voltage

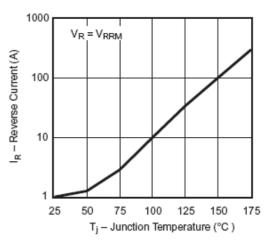


Figure 4. Reverse Current vs. Junction Temperature

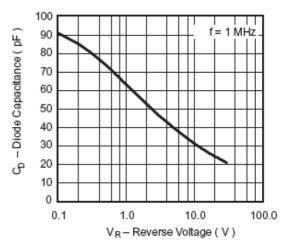


Figure 6. Diode Capacitance vs. Reverse Voltage

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