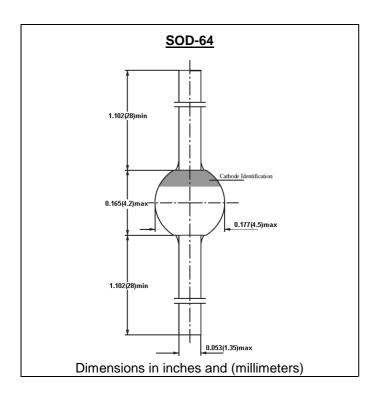


SINTERED GLASS JUNCTION FAST AVALANCHE RECTIFIER

Reverse Voltage - 1000 V Forward Current - 3.0 A



FEATURE

Glass passivated Hermetically sealed package Low reverse current Soft recovery characteristics

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	BYT56M	units
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	1000	V
Maximum RMS Voltage		V _{RMS}	700	V
Maximum DC blocking Voltage		V_{DC}	1000	V
Maximum Average Forward Rectified Current 3/8"lead length at I =10mm		I _{FAV}	3.0	А
Peak Forward Surge Current at tp=10ms,half sinewave		I _{FSM}	80	А
Maximum Forward Voltage at rated Forward Current at IF=3.0A		V _F	1.4	V
Non-repetitive peak reverse avalanche energy at I _{BR(R)} =0.4A		E _{RSM}	10	mJ
Maximum DC Reverse Current at rated DC blocking voltage	Ta =25°C Ta =150°C	I _R	5.0 150.0	μΑ μΑ
Maximum Reverse Recovery Time	(Note 1)	Trr	100	nS
Typical Thermal Resistance	(Note 2)	Rth(ja)	70	°C /W
Storage and Operating Junction Temperature		Tstg, Tj	-55 to +175	°C

Note:

- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. on PC board with spacing 25 mm



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RATINGS AND CHARACTERISTIC CURVES

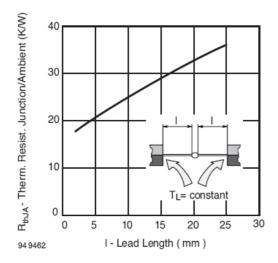


Figure 1. Max. Thermal Resistance vs. Lead Length

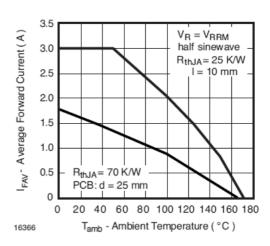


Figure 3. Max. Average Forward Current vs. Ambient Temperature

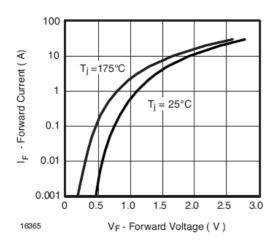


Figure 2. Forward Current vs. Forward Voltage

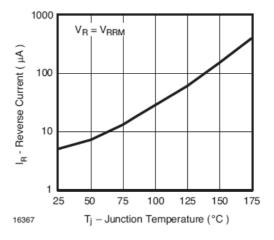


Figure 4. Reverse Current vs. Junction Temperature

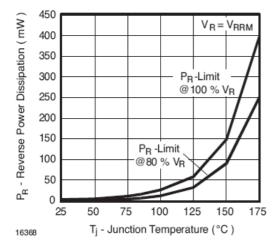


Figure 5. Max. Reverse Power Dissipation vs. Junction Temperature

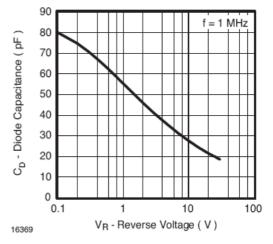


Figure 6. Diode Capacitance vs. Reverse Voltage