

BYW72

SINTERED GLASS JUNCTION FAST AVALANCHE RECTIFIER

VOLTAGE: 200V

CURRENT: 3.0A



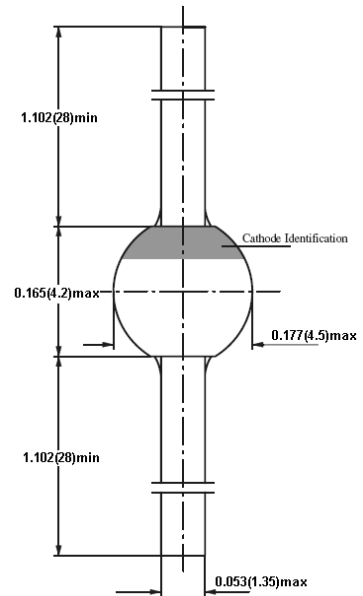
FEATURE

Glass passivated
Low reverse current
Soft recovery characteristics
Guaranteed avalanche energy absorption capability

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

SOD-64



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	BYW72	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	V
Maximum RMS Voltage	V_{RMS}	140	V
Maximum DC blocking Voltage	V_{DC}	200	V
Maximum Average Forward Rectified Current 3/8" lead length at $T_a = 80^\circ C$	I_{FAV}	3.0	A
Peak Forward Surge Current at $T_p=10ms$ half sinewave	I_{FSM}	100	A
Maximum Forward Voltage at rated Forward Current	V_F	1.10	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	I_R	5.0 150.0	μA
Maximum Reverse Recovery Time (Note 1)	T_{rr}	200	nS
Typical Thermal Resistance (Note 2)	$R_{th(ja)}$	25	$^\circ C / W$
Storage and Operating Junction Temperature	T_{stg}, T_j	-55 to +175	$^\circ C$

Note:

1. Reverse Recovery Condition $I_f = 0.5A, I_r = 1.0A, I_{rr} = 0.25A$
2. $l = 10mm, T_L = \text{constant}$

RATINGS AND CHARACTERISTIC CURVES BYW72

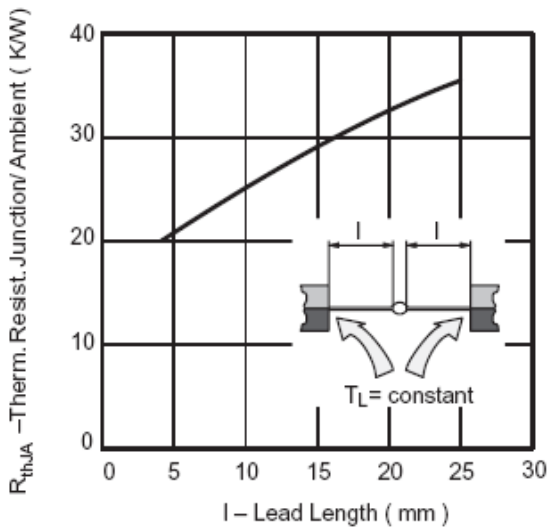


Figure 1. Max. Thermal Resistance vs. Lead Length

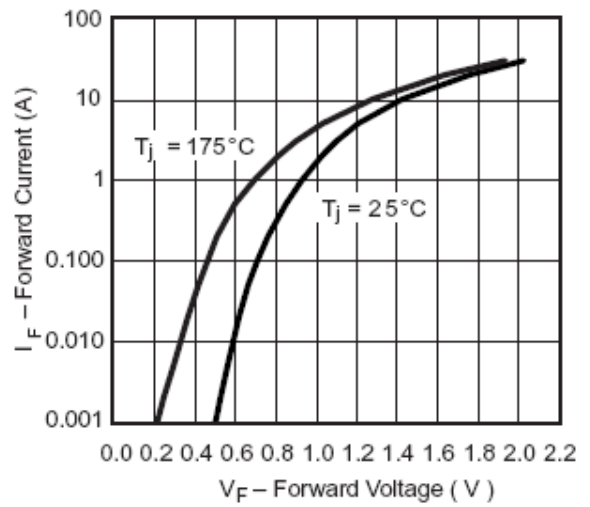


Figure 2. Forward Current vs. Forward Voltage

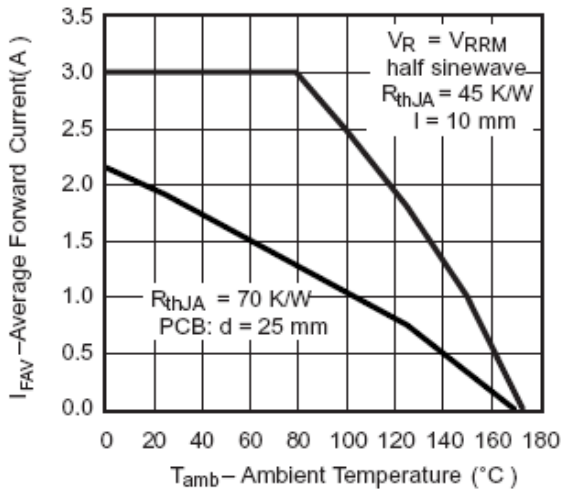


Figure 3. Max. Average Forward Current vs. Ambient Temperature

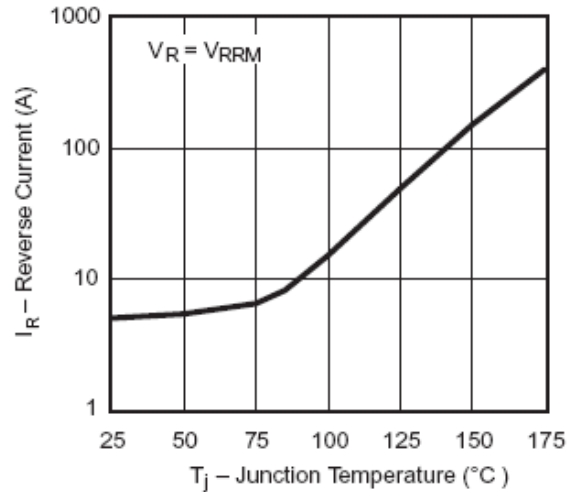


Figure 4. Reverse Current vs. Junction Temperature

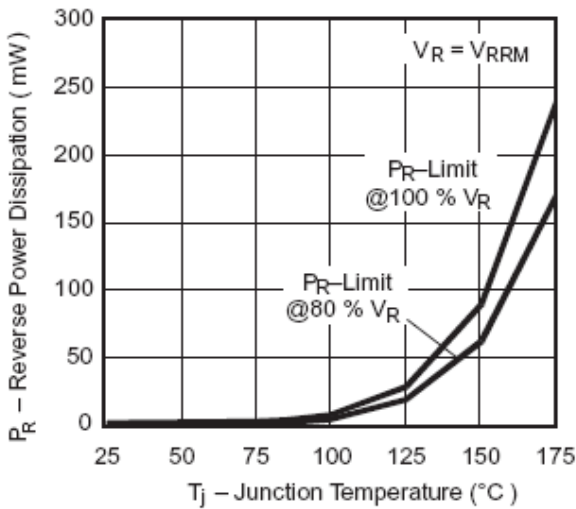


Figure 5. Max. Reverse Power Dissipation vs. Junction Temperature

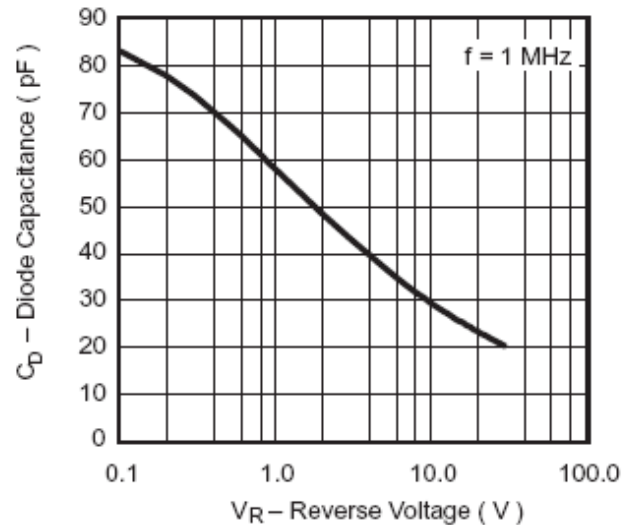


Figure 6. Diode Capacitance vs. Reverse Voltage