

BYW178

SINTERED GLASS JUNCTION FAST AVALANCHE RECTIFIER

VOLTAGE: 800V

CURRENT: 3.0A



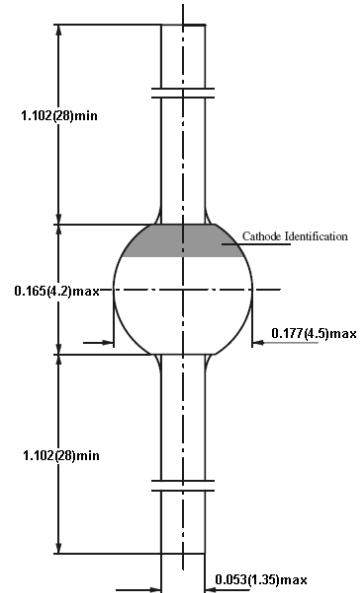
FEATURE

Glass passivated junction
Low reverse current
Soft recovery characteristics
Very fast reverse recovery time
Low reverse recovery peak current

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	BYW178	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
Reverse Breakdown Voltage at $I_R = 0.1\text{mA}$	$V_{(BR)R}$	1100min	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	3.0	A
Peak Forward Surge Current at $t_p=10\text{ms}$ half sinewave	I_{FSM}	80	A
Maximum Forward Voltage at rated Forward Current and 25°C	V_F	1.90	V
Maximum DC Reverse Current at rated DC blocking voltage	I_R	1.0 20	μA μA
Maximum Reverse Recovery Time (Note 1)	T_{rr}	60	nS
Typical Thermal Resistance (Note 2)	$R_{th(ja)}$	70	K/W
Storage and Operating Junction Temperature	T_{stg}, T_j	-55 to +175	°C

Note:

1. Reverse Recovery Condition $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$
2. on PC board with spacing 37.5mm

RATINGS AND CHARACTERISTIC CURVES BYW178

