BYV96D THRU BYV96E

SINTERED GLASS JUNCTION FAST AVALANCHE RECTIFIER

VOLTAGE: 800V to 1000V CURRENT: 1.5A



FEATURE

Glass passivated
High maximum operating temperature
Low leakage current
Excellent stability
Guaranteed avalanche energy absorption capability

MECHANICAL DATA

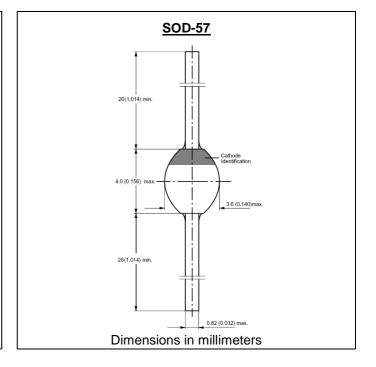
Case: SOD-57 sintered glass case

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)

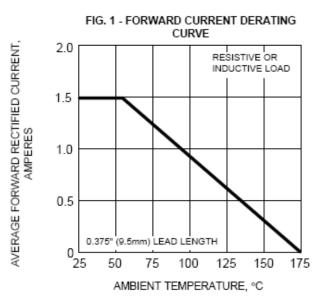
	SYMBOL	BYV96D	BYV96E	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	800	1000	V
Maximum RMS Voltage	V _{RMS}	560	700	V
Maximum DC blocking Voltage	V_{DC}	800	1000	V
Reverse Breakdown Voltage at IR =0. 1mA	$V_{(BR)R}$	900min	1100min	V
Maximum Average Forward Rectified Current at Ta=55℃	I _{F(AV)}	1.5		А
Peak Forward Surge Current at 10ms single half sine-wave superimposed on rated load	I _{FSM}	35		А
Maximum Forward Voltage at rated Forward Current and 25 $^{\circ}$ C I _F = 3.0A	V _F	1.6		V
Maximum DC Reverse Current $Tj = 25^{\circ}C$ at rated DC blocking voltage $Tj = 165^{\circ}C$	I _R	5.0 150		μА
Maximum Reverse Recovery Time (Note 1)	Trr	300		nS
Non Repetitive Reverse Avalanche Energy at L=120mH	E _R	10		mJ
Typical Junction Capacitance (Note 2)	Cj	10		pF
Typical Thermal Resistance (Note 3)	Rth(ja)	55		°C∕W
Storage and Operating Junction Temperature	Tstg, Tj	-65 to +175		°C

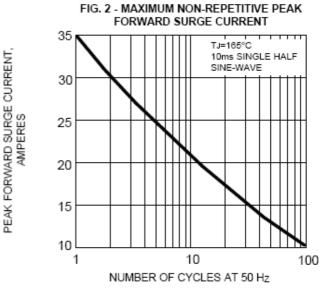
Note:

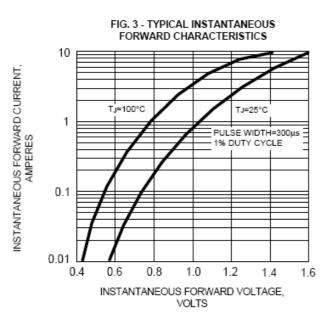
- 1. Reverse Recovery Condition $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$
- 2. Measures at 1.0MHz and applied reverse voltage of 4.0 Volts
- 3. Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length, P.C.B. mounted

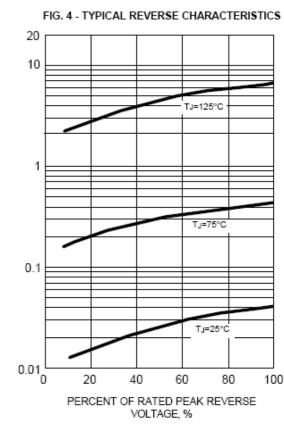
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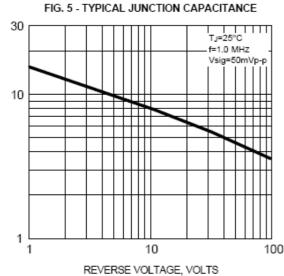
RATINGS AND CHARACTERISTIC CURVES BYV96D THRU BYV96E











JUNCTION CAPACITANCE, pF

INSTANTANEOUS REVERSE CURRENT, MICROAMPERES