## BYV95A

# SINTERED GLASS JUNCTION FAST AVALANCHE RECTIFIER

VOLTAGE: 200V CURRENT: 1.5A



### **FEATURE**

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

## **MECHANICAL DATA**

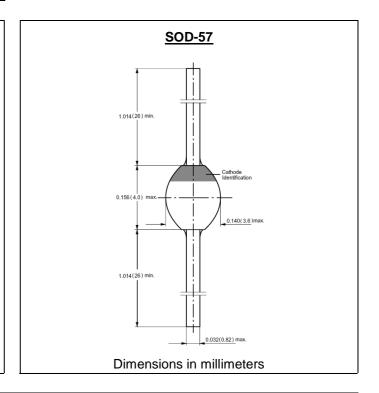
Case: SOD-57 sintered glass case

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	BYV95A	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
Reverse Breakdown Voltage at IR =0. 1mA	$V_{(BR)R}$	300min	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =65°C	I <sub>F(AV)</sub>	1.5	А
Peak Forward Surge Current 8.3ms single half sinewave superimposed on rated load	Ifsm	35	А
Maximum Forward Voltage at I <sub>F</sub> = 3.0A and 25°C	V <sub>F</sub>	1.6	V
Maximum DC Reverse Current $Tj = 25^{\circ}C$ at rated DC blocking voltage $Tj = 150^{\circ}C$	I <sub>R</sub>	5.0 150	μА
Maximum Reverse Recovery Time (Note 1)	Trr	250	nS
Non Repetitive Reverse Avalanche Energy (Note 2)	E <sub>R</sub>	10	mJ
Typical Junction Capacitance (Note 3)	Cj	45	pF
Typical Thermal Resistance (Note 4)	Rth(ja)	46	K/W
Storage and Operating Junction Temperature	Tstg, Tj	-65 to +175	$^{\circ}$

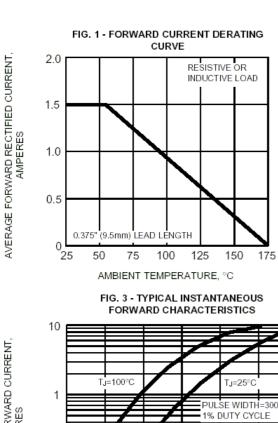
#### Note:

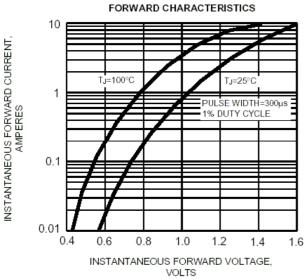
- 1. Reverse Recovery Condition  $I_F = 0.5A$ ,  $I_R = 1.0A$ ,  $I_{RR} = 0.25A$
- 2. L = 120 mH; Tj = Tj max prior to surge; inductive load switched off
- 3. Measured at 1.0 MHz and applied reverse voltage of 4Vdc

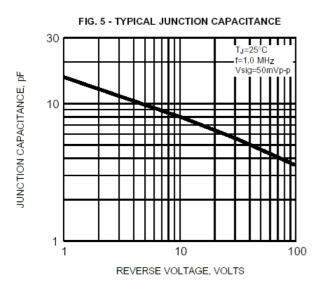
4. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

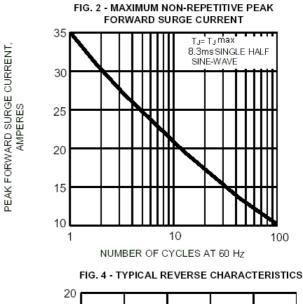
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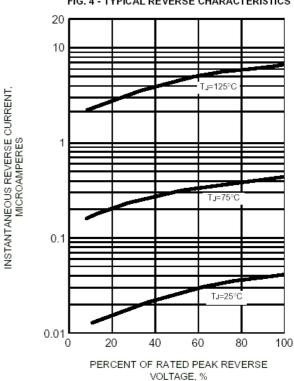
#### **RATINGS AND CHARACTERISTIC CURVES BYV95A**











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