## **FE1.5M**

# SINTERED GLASS JUNCTION ULTRAFAST AVALANCHE RECTIFIER

VOLTAGE: 1000V CURRENT: 1.5A



### **FEATURE**

Glass passivated Hermetically sealed package Low reverse current Soft recovery characteristics

## **MECHANICAL DATA**

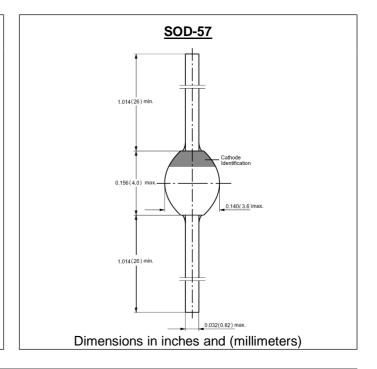
Case: SOD-57 sintered glass case

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)

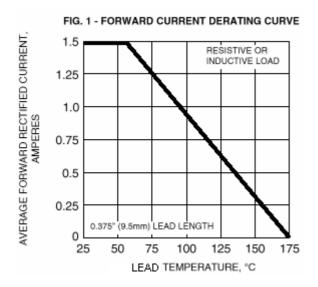
	SYMBOL	FE1.5M	units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	700	V
Maximum DC blocking Voltage	V <sub>DC</sub>	1000	V
Maximum Average Forward Rectified Curre 3/8"lead length at TL=55 $^{\circ}$ C	ent I <sub>FAV</sub>	1.5	А
Peak Forward Surge Current 8.3ms single half sin wave superimposed on rated load	ne- I <sub>FSM</sub>	50	А
Maximum Forward Voltage at rated Forward Curre and 25 $^{\circ}\!$	ent V <sub>F</sub>	1.8	V
Maximum DC Reverse Current Ta =25° at rated DC blocking voltage Ta =100°	- I ID	5.0 100	μА
Maximum Reverse Recovery Time (Note	1) Trr	53	nS
Typical Junction Capacitance (Note	2) Cj	30.0	pF
Typical Thermal Resistance (Note:	3) Rth(ja)	45.0	°C/W
Storage and Operating Junction Temperature	Tstg, Tj	-65 to +175	°C

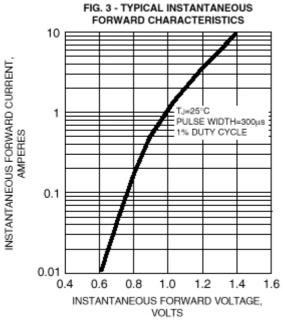
#### Note:

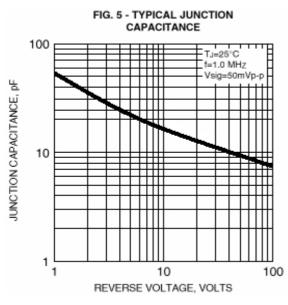
- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

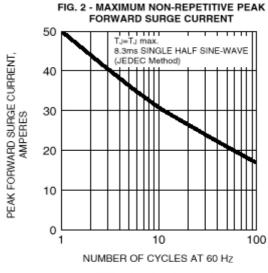
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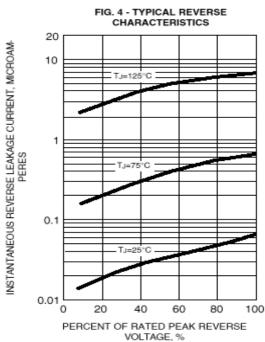
#### **RATINGS AND CHARACTERISTIC CURVES FE1.5M**











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