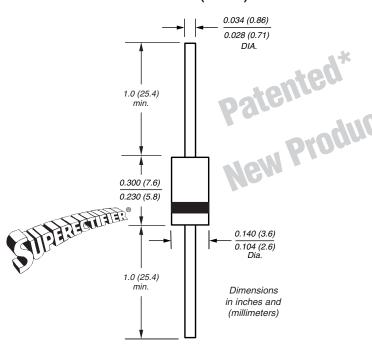




#### DO-204AC (DO-15)



\* Glass-plastic encapsulation technique is covered by Patent No. 3,996,602 and brazed-lead assembly by Patent No. 3,930,306.

## Miniature Clamper/Damper Glass Passivated Rectifier

Reverse Voltage 1650V Forward Current 1.5A

#### **Features**

- Specially designed for clamping circuits, horizontal deflection systems and damper applications
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
- High temperature metallurgically bonded construction
- · Cavity-free glass passivated junction
- 1.5 Ampere operation at TA=50°C with no thermal runaway
- Typical I<sub>R</sub> less than 0.1μA
- Capable of meeting environmental standards of MIL-S-19500
- High temperature soldering guaranteed: 350°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

### **Mechanical Data**

Case: JEDEC DO-204AC, molded plastic over glass body

Terminals: Plated axial leads, solderable per

MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any Weight: 0.015 ounce, 0.4 gram

## Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Unit
Maximum repetitive peak reverse voltage	VRRM	1650	V
Maximum RMS voltage	V <sub>RMS</sub>	1150	V
Maximum DC blocking voltage	VDC	1650	V
Maximum average forward rectified current 0.375" (9.5mm) lead length at TA = 50°C	lF(AV)	1.5	А
Peak forward surge current 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	IFSM	40	А
Maximum full load reverse current full cycle average 0.375" (9.5mm) lead length at TA = 100°C	I <sub>R(AV)</sub>	50	μΑ
Typical thermal resistance (Note 1)	RөJA	55	°C/W
Operating junction and storage temperature range	TJ, TSTG	-65 to +175	°C

### Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Unit
Maximum instantaneous forward voltage at 3.0A	VF	1.6	V
Maximum DC reverse current  at rated DC blocking voltage  TA = 25°C  TA = 100°C	I In	5.0 100	μΑ
Maximum reverse recovery time at IF = 0.5A, IR = 50m.	A trr	20	μs
Typical junction capacitance at 4.0V, 1MHz	CJ	15	pF



# Miniature Clamper/Damper Glass Passivated Rectifier

## Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

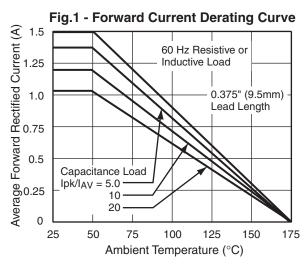
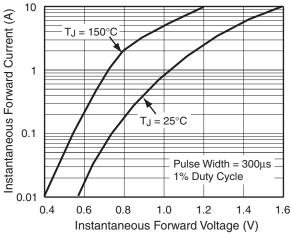


Fig.3 - Typical Instantaneous Forward Characteristics



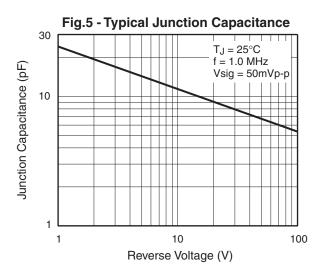


Fig.2 - Maximum Non-Repetitive Peak Forward Surge Current

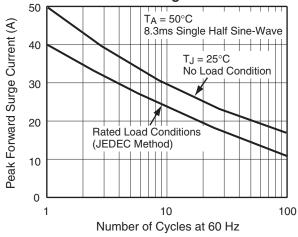


Fig.4 - Typical Reverse Characteristics

