## **TVR10G**

## SINTERED GLASS JUNCTION FAST SWITCHING PLASTIC RECTIFIER VOLTAGE: 600V CURRENT: 1.0A

**FEATURE** 

MIL-S-19500

Typical Ir<0.1µA

**MECHANICAL DATA** 

Mounting position: any

Retardant Epoxy

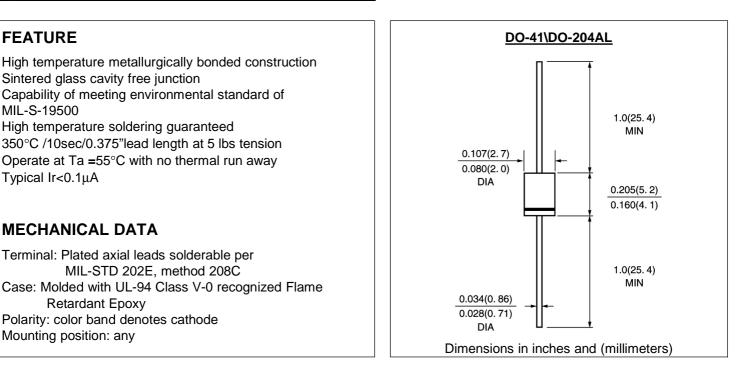
Polarity: color band denotes cathode

Sintered glass cavity free junction

High temperature soldering guaranteed

MIL-STD 202E, method 208C





## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	TVR10G	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	600	V
Maximum RMS Voltage	Vrms	420	V
Maximum DC blocking Voltage	Vdc	600	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta = $55^{\circ}$ C	lf(av)	1.0	A
Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load	lfsm	30.0	A
Maximum Forward Voltage at rated Forward Current and 25°C	Vf	1.3	V
Maximum full load reverse current full cycle average at $55^{\circ}C$ Ambient	Ir(av)	100.0	μΑ
Maximum DC Reverse CurrentTa = $25^{\circ}C$ at rated DC blocking voltageTa = $150^{\circ}C$	lr	5.0 100.0	μΑ
Maximum Reverse Recovery Time (Note 1)	Trr	150	nS
Typical Junction Capacitance (Note 2)	Cj	15.0	pF
Typical Thermal Resistance (Note 3)	Rth(ja)	55.0	°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

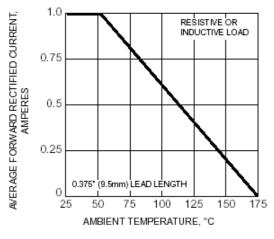
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

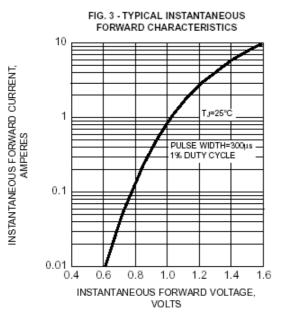
3. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

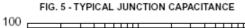
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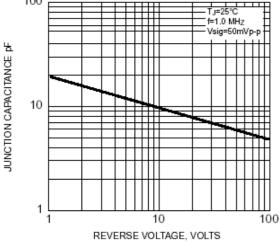


FIG. 1 - FORWARD CURRENT DERATING CURVE









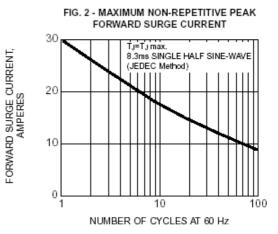


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

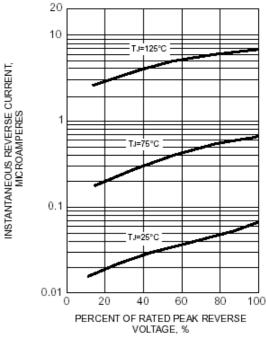
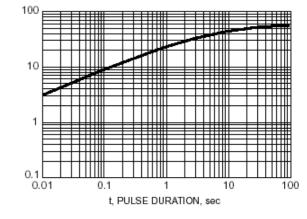


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE



TRANSIENT THERMAL IMPEDANCE (°CM)

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