

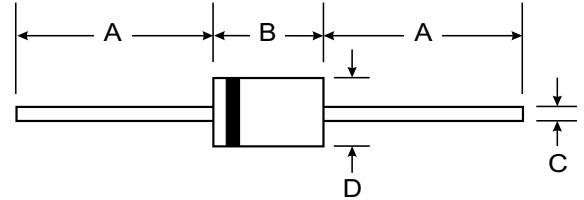
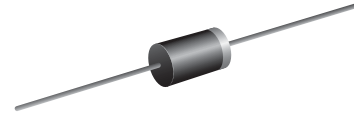
VOLTAGE RANGE: 600 - 1000V
CURRENT: 1.5 A

Features

- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with Freon, Alcohol, Isopropanol and similar solvents
- The plastic material carries U/L recognition 94V-0

Mechanical Data

- Case : DO-15 Molded plastic
- Epoxy : UL94V-0 rate flame retardant
- Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 0.465 gram



DO-15		
Dim	Min	Max
A	25.40	—
B	5.50	7.62
C	0.686	0.889
D	2.60	3.60
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	TVR4J	TVR4N	Unit
Maximum recurrent peak reverse voltage	V _{RRM}	600	1000	V
Maximum RMS voltage	V _{RMS}	420	700	V
Maximum DC blocking voltage	V _{DC}	600	1000	V
Maximum average forward rectified current 9.5mm lead length, @T _A =75°C	I _{F(AV)}	1.5		A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I _{FSM}	50.0		A
Maximum instantaneous forward voltage @ 1.5 A	V _F	1.3		V
Maximum reverse current @T _A =25°C at rated DC blocking voltage @T _A =100°C	I _R	5.0	100.0	μA
Maximum reverse recovery time (Note1)	t _{rr}	1000		ns
Typical junction capacitance (Note2)	C _J	20		pF
Typical thermal resistance (Note3)	R _{θJA}	40		°C/W
Operating junction temperature range	T _J	-55-----+150		°C
Storage temperature range	T _{STG}	-55-----+150		°C

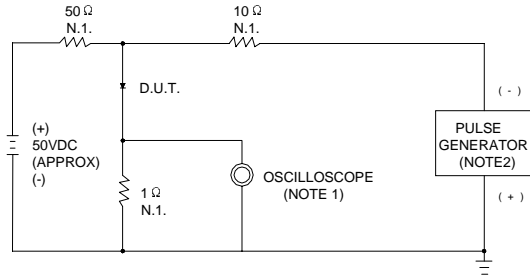
NOTE:1. Measured with I_F=0.5A, I_R=1A, I_{rr}=0.25A.

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

3. Thermal resistance from junction to ambient.



FIG.1 – REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



NOTES: 1. RISE TIME=7ns MAX. INPUT IMPEDANCE=1MΩ, 22pF
 2. RISE TIME=10ns MAX. SOURCE IMPEDANCE=50Ω

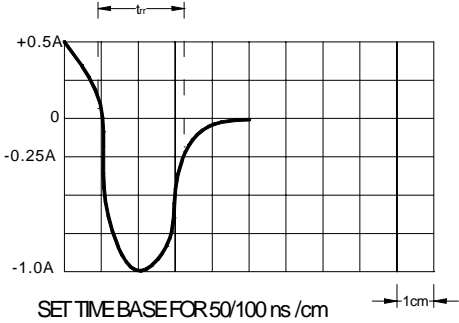


FIG.2 –FORWARD DERATING CURVE

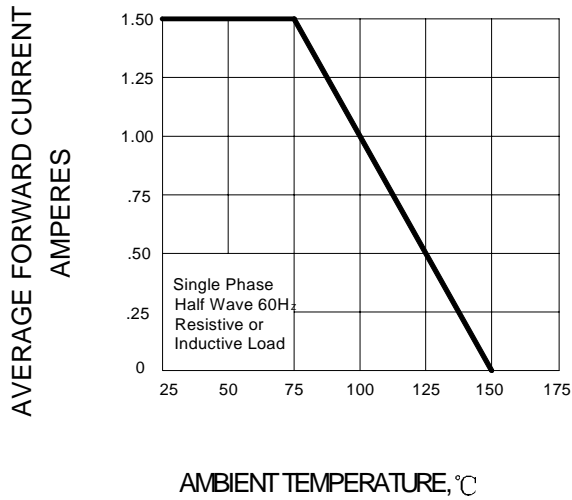


FIG.3 –PEAK FORWARD SURGE CURRENT

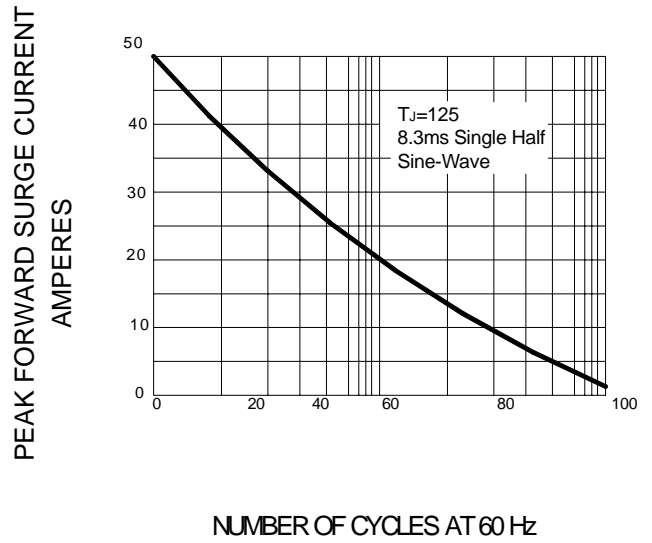


FIG.4–TYPICAL FORWARD CHARACTERISTIC

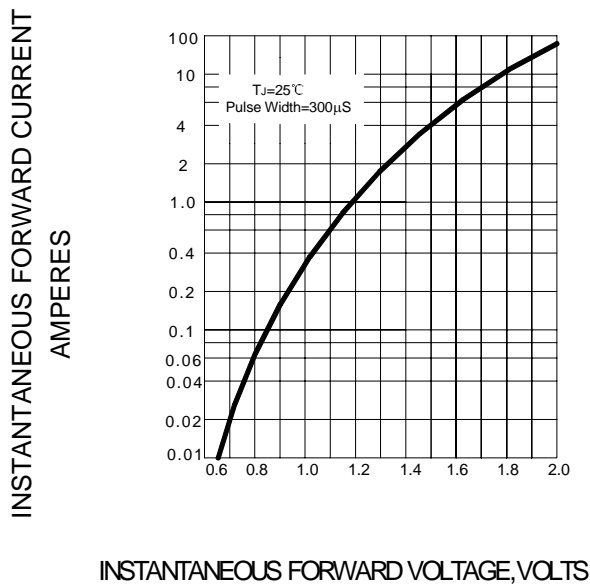


FIG.5– TYPICAL JUNCTION CAPACITANCE

