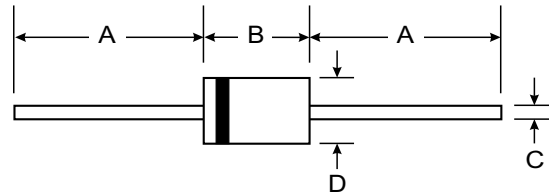


Features

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



Mechanical Data

- Case: JEDEC DO-15, molded plastic
- Terminals: Axial lead, solderable per MIL-STD-202, Method 208
- Polarity: Color band denotes cathode
- Weight: 0.014 ounces, 0.39 grams
- Mounting position: Any

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%.

		R2500F	R3000F	R4000F	R5000F	UNITS
Maximum recurrent peak reverse voltage	V _{RRM}	2500	3000	4000	5000	V
Maximum RMS voltage	V _{RMS}	1750	2100	2800	3500	V
Maximum DC blocking voltage	V _{DC}	2500	3000	4000	5000	V
Maximum average forward rectified current 9.5mm lead length, @ T _A =75°C	I _{F(AV)}	0.2				A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ T _J =125°C	I _{FSM}	30.0				A
Maximum instantaneous forward voltage @ 0.2A	V _F	4.0	5.0	6.5		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}	500				ns
Typical junction capacitance (Note2)	C _J	15				pF
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.



FIG.1 – FORWARD DERATING CURVE

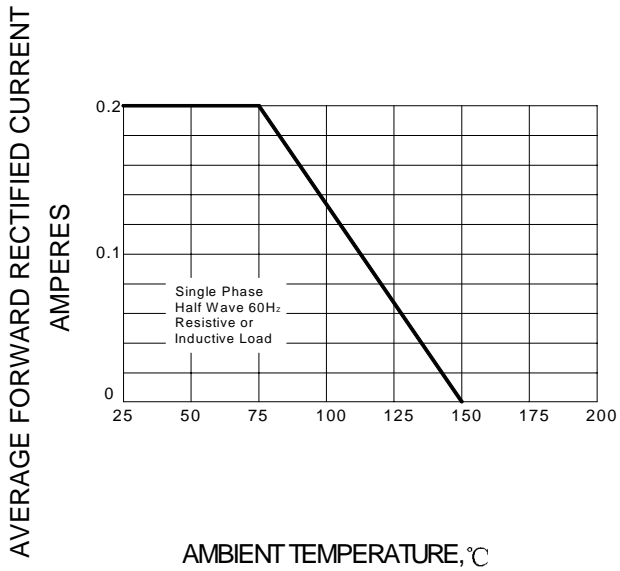


FIG.2 – PEAK FORWARD SURGE CURRENT

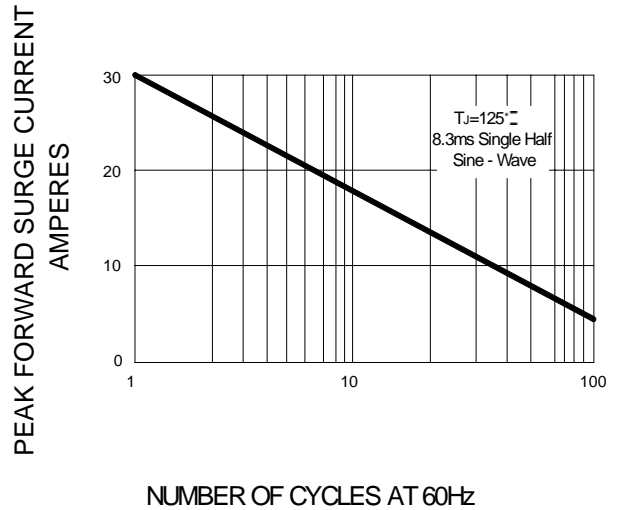
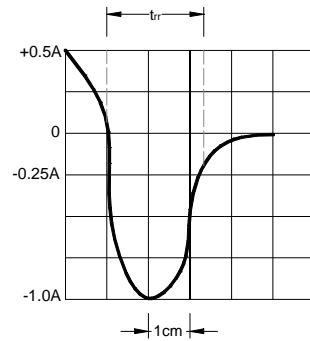
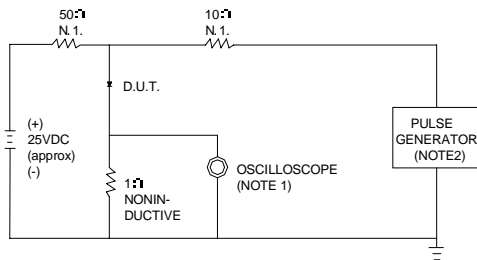


FIG.3 – TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



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

SET TIME BASE FOR 50/100 ns/cm