

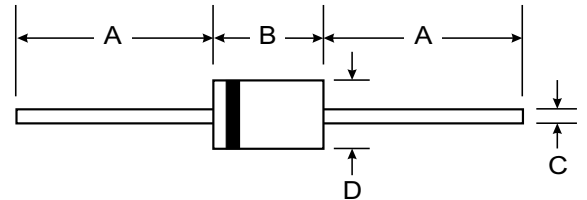
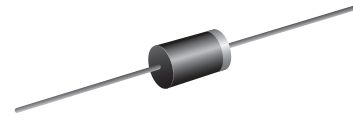
**VOLTAGE RANGE: 2000V**  
**CURRENT: 0.1 A**

### Features

- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with freon, alcohol, Isopropanol and similar solvents

### 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<sub>A</sub> = 25°C unless otherwise specified

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

Characteristic	Symbol	RP1H	UNITS
Maximum peak repetitive reverse voltage	$V_{RRM}$	2000	V
Maximum RMS voltage	$V_{RMS}$	1400	V
Maximum DC blocking voltage	$V_{DC}$	2000	V
Maximum average forward rectified current 9.5mm lead length, @T <sub>A</sub> =75°C	$I_{F(AV)}$	0.1	A
Peak forward surge current 10ms single half-sine-wave superimposed on rated load @T <sub>J</sub> =125°C	$I_{FSM}$	5.0	V
Maximum instantaneous forward voltage @ 0.1A	$V_F$	7.0	V
Maximum reverse current @T <sub>A</sub> =25°C at rated DC blocking voltage @T <sub>A</sub> =100°C	$I_R$	20.0 200.0	μA
Maximum reverse recovery time (Note1)	$t_{rr}$	50	ns
Typical junction capacitance (Note2)	$C_J$	20	pF
Typical thermal resistance (Note3)	$R_{\theta JL}$	15	°C/W
Operating junction temperature range	$T_J$	- 55 ----- + 150	°C
Storage temperature range	$T_{STG}$	- 55 ----- + 150	°C

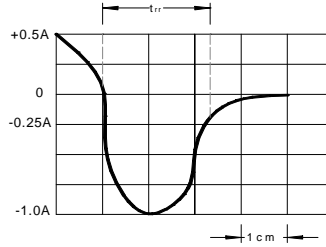
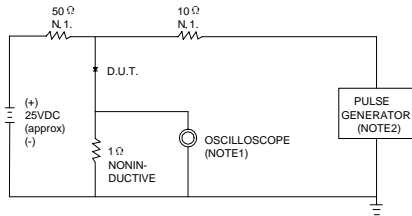
NOTE: 1. Measured with  $I_F=0.5A$ ,  $I_R=1A$ ,  $I_{rr}=0.25A$ .

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

3. Thermal resistance junction to ambient .



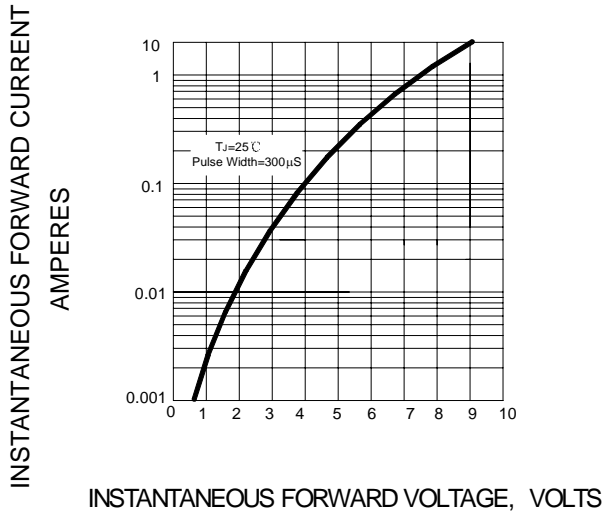
**FIG.1 – TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC**



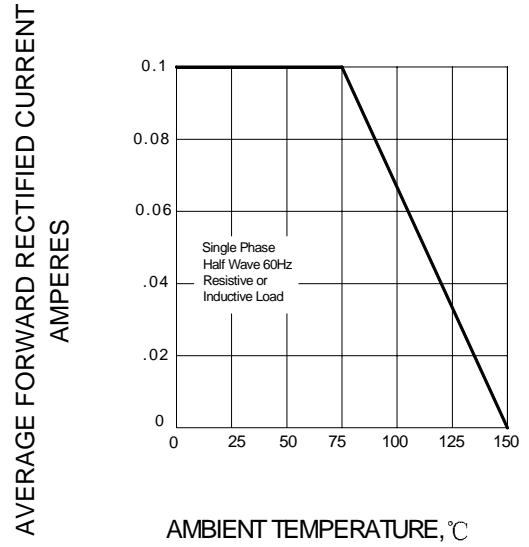
NOTES:1. RISE TIME = 7ns MAX.INPUT IMPEDANCE = 1MΩ, 22pF.  
2. RISE TIME = 10ns MAX.SOURCE IMPEDANCE = 50 Ω.

SET TIME BASE FOR 10/20 ns/cm

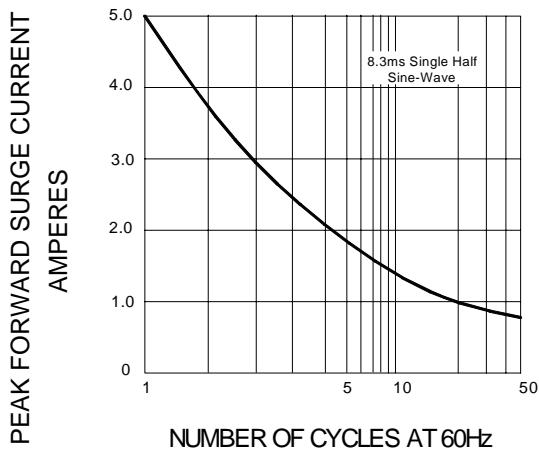
**FIG.2 – TYPICAL FORWARD CHARACTERISTIC**



**FIG.3 – FORWARD DERATING CURVE**



**FIG.4 – PEAK FORWARD SURGE CURRENT**



**FIG.5 – TYPICAL JUNCTION CAPACITANCE**

