

HIGH VOLTAGE RECTIFIERS

REVERSE VOLTAGE - **1200 to 5000** Volts
FORWARD CURRENT - **0.2 / 0.5** Amperes

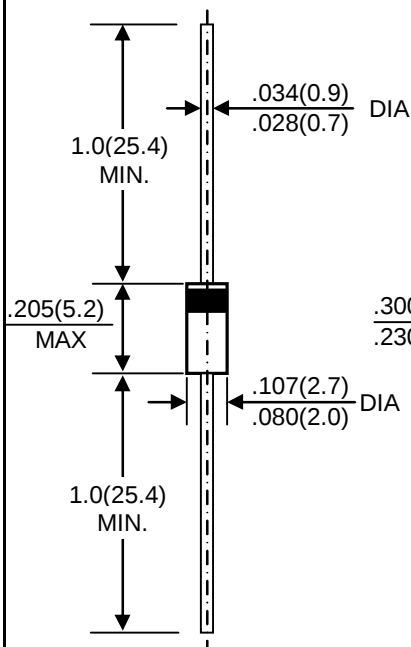
FEATURES

- High voltage
- High current capability
- Low leakage current
- High surge capability
- Low cost

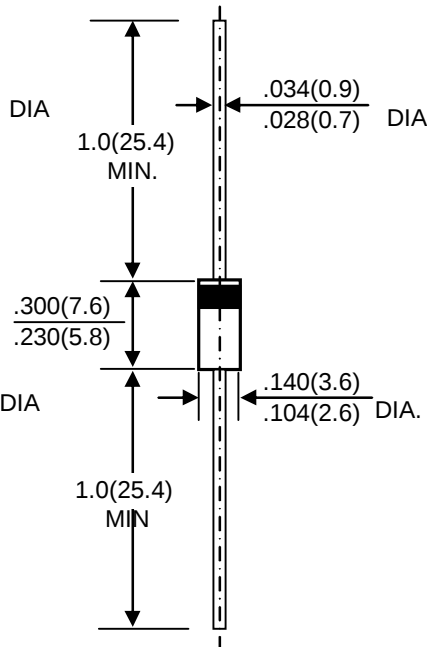
MECHANICAL DATA

- Case: Molded plastic use UL-94-O recognized Flame Retardant Epoxy
- Terminal: Axial leads solderable per MIL-STD202, Method 208
- Polarity: Color band denotes cathode
- Mounting position: Any

DO-41



DO-15



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

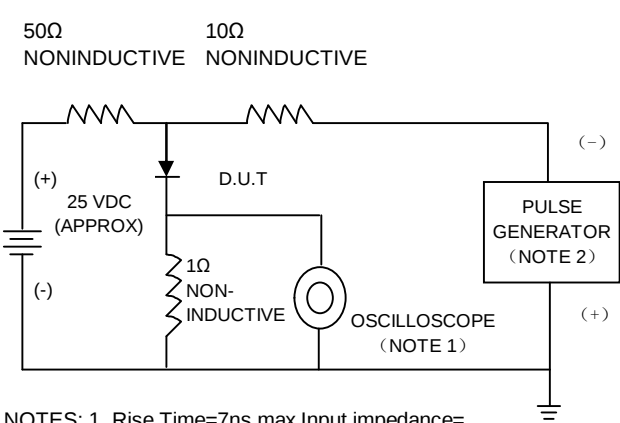
For capacitive load, derate current by 20%

CHARACTERISTICS	R1200	R1500	R1800	R2000	R2500	R3000	⌘R4000	⌘R5000	UNIT
	R1200F	R1500F	R1800F	R2000F	R2500F	R3000F	⌘R4000F	⌘R5000F	
Maximum Peak Reverse Voltage	1200	1500	1800	2000	2500	3000	4000	5000	Vpk
Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz TA =50 ℃	500				200				mA
Maximum Forward Peak Surge Current @ 8.3ms Superimposed IFM(Surge)	30								Apk
Maximum Reverse Current @ PRV@25℃ TA IR	5.0								uAdc
Maximum Forward Voltage @ 25℃TA IF=0.5/0.2 Apk VFM	2 3				4.5 5				Vpk
Maximum Reverse Recovery Time (Note 1)	— 500				— 500				ns
Operating and storage Temperature	-65 to +150								℃

NOTES: 1. Reverse recovery test conditions: I_F=0.5A, I_R=1A, I_{rr}=0.25A

2. ⌘ Package DO-15

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



NOTES: 1. Rise Time=7ns max,Input impedance=1 megohm,22pF
2. Rise Time=10ns max,Source Impedance=50 oh ms.

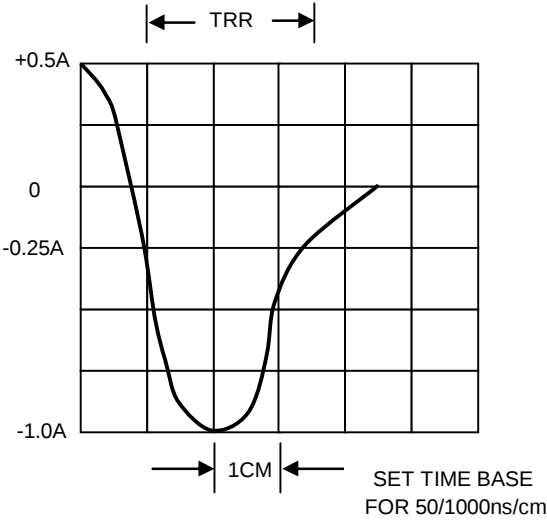


FIG. 2 – FORWARD CURRENT DERATING CURVE

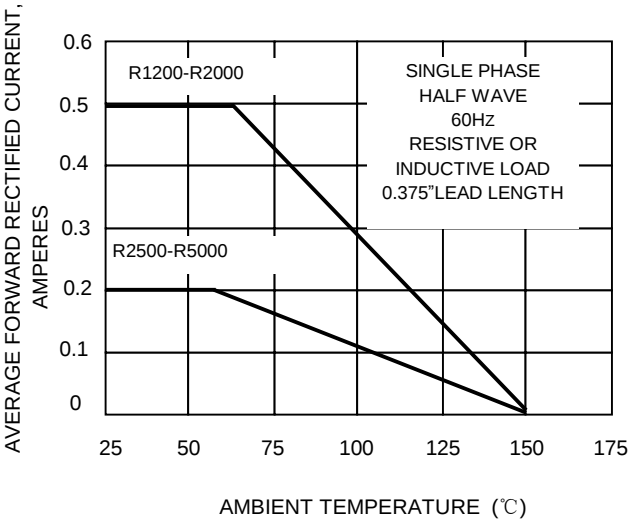


FIG.3 –TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

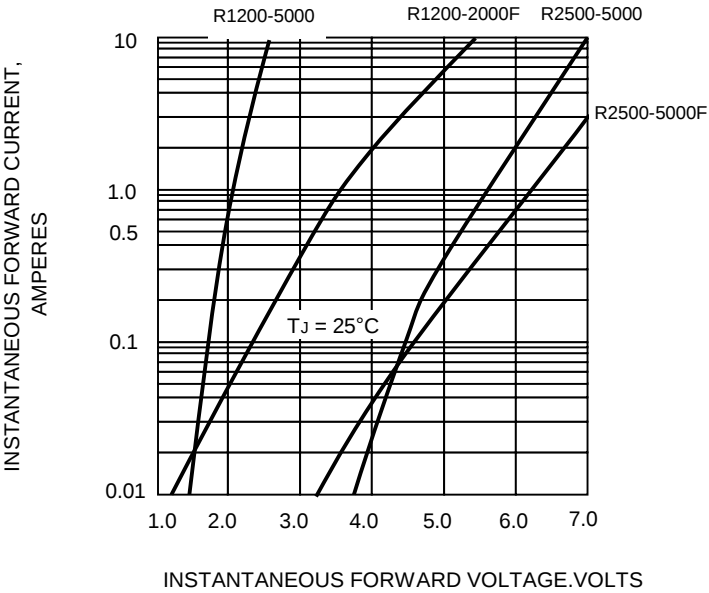


FIG.4-PEAK FORWARD SURGE CURRENT

