

HIGH VOLTAGE RECTIFIERS

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

FEATURES

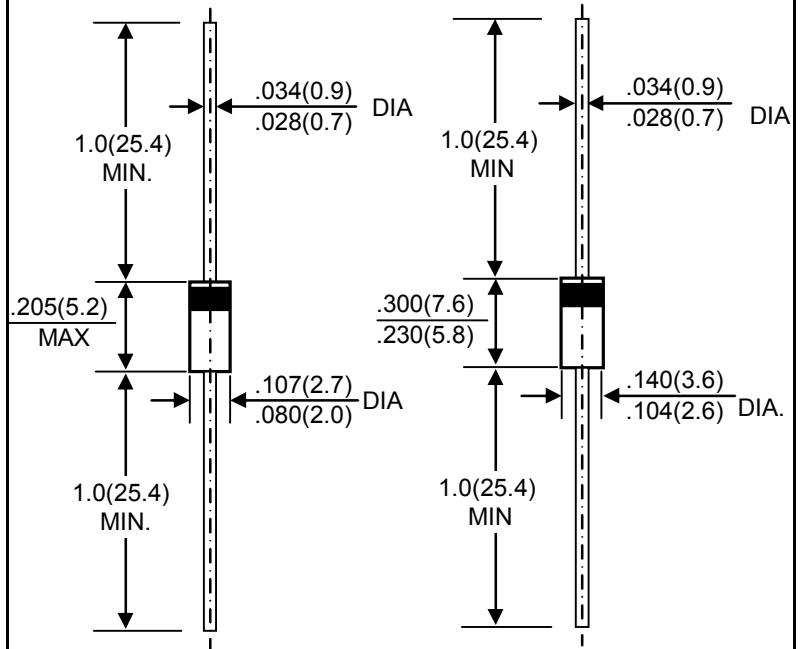
- High voltage
- High current capability
- Low leakage current
- High surge capability
- Low cost

MECHANICAL DATA

- Case: Molded plastic use UL-94-O regognized
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.

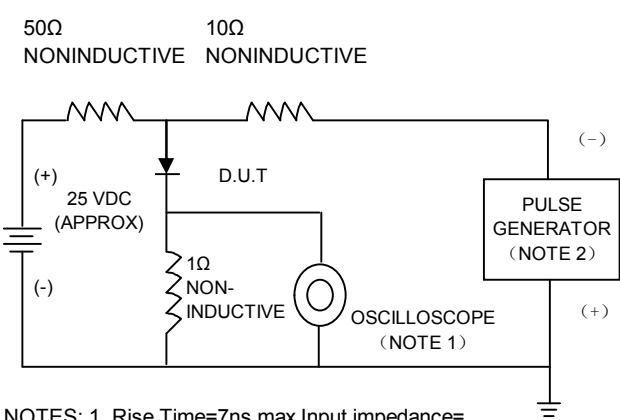
For capacitive load, derate current by 20%

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								μAdc
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	-55 to +150								℃

NOTES:1.Reverse recovery test conditions: IF=0.5A, IR=1A, Irr=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.

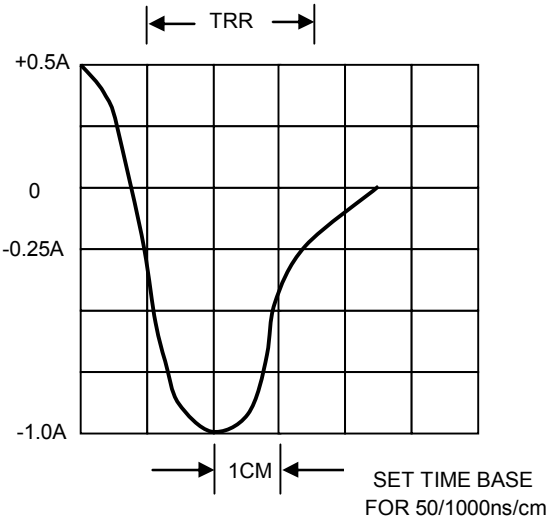


FIG. 2 – FORWARD CURRENT DERATING CURVE

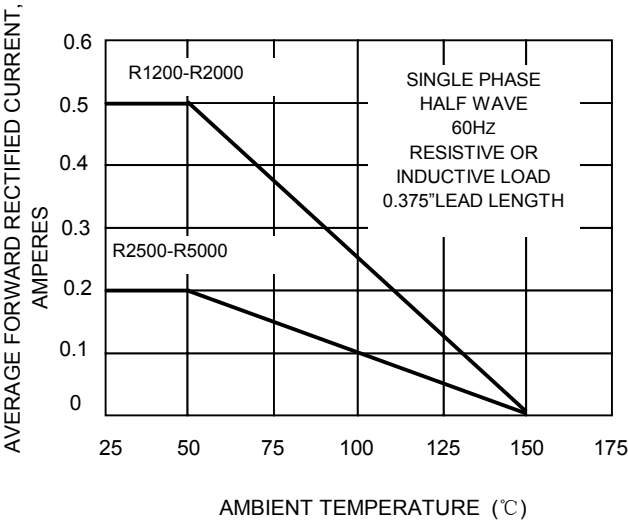


FIG.3 –TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

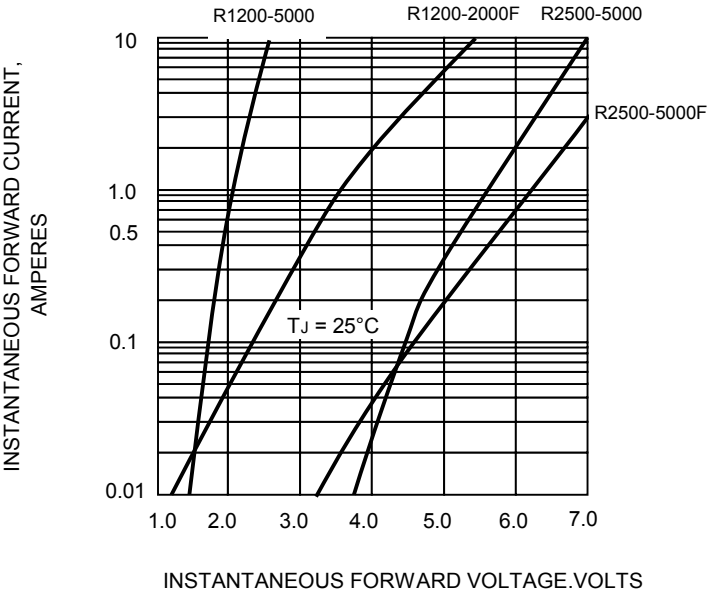


FIG.4-PEAK FORWARD SURGE CURRENT

