

**HIGH VOLTAGE RECTIFIERS**

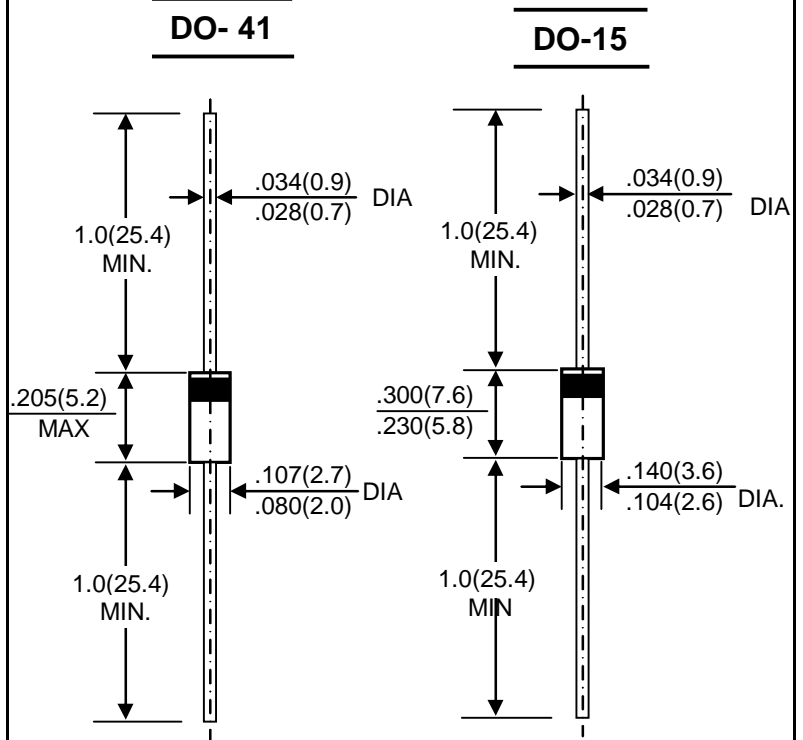
REVERSE VOLTAGE - 1200 to 5000 Volts  
 FORWARD CURRENT - 0.2 /0.5Amperes

**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



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 °C	500				200				mA
Maximum Forward Peak Surge Current @8.3ms Superimposed IFM(Surge)	30								Apk
Maximum Reverse Current @ PRV@25°C TA IR	5.0								uAdc
Maximum Forward Voltage @ 25°C TA IF=0.5/0.2 Apk VFM	2				4.5				Vpk
	3				5				
Maximum Reverse Recovery Time ( Note 1)	500				500				ns
Operating and storage Temperature	-65 to +150								°C

NOTES:1.Reverse recovery test conditions: IF=0.5A, IR=1A, Irr=0.25A

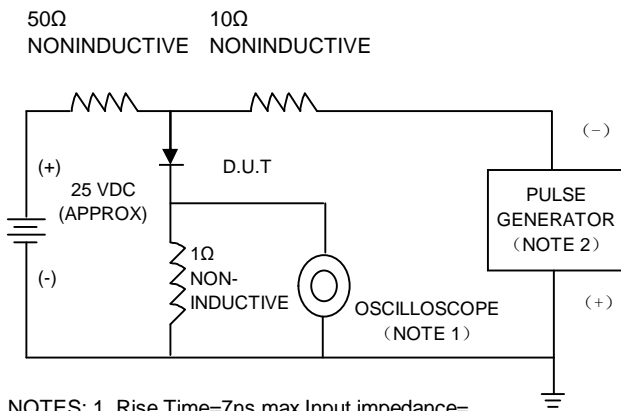
2.⌘ Package DO-15

# RATING AND CHARACTERISTIC CURVES

## R1200/R1200F SERIES



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.

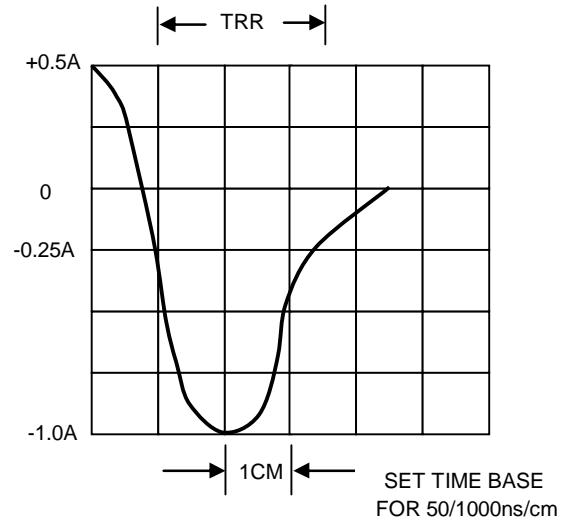


FIG. 2 – FORWARD CURRENT DERATING CURVE

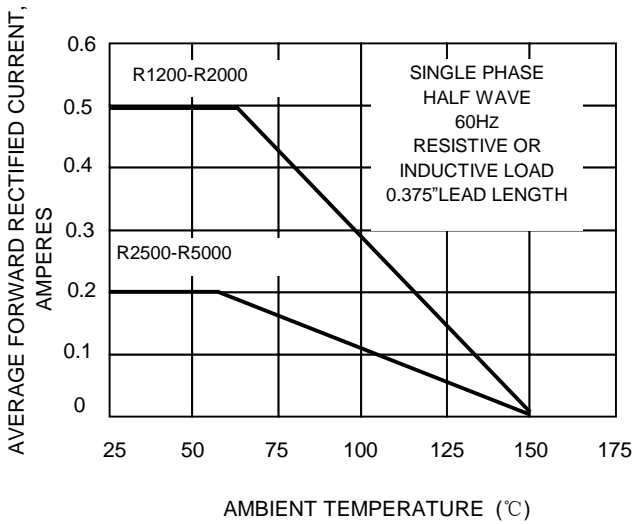


FIG.3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

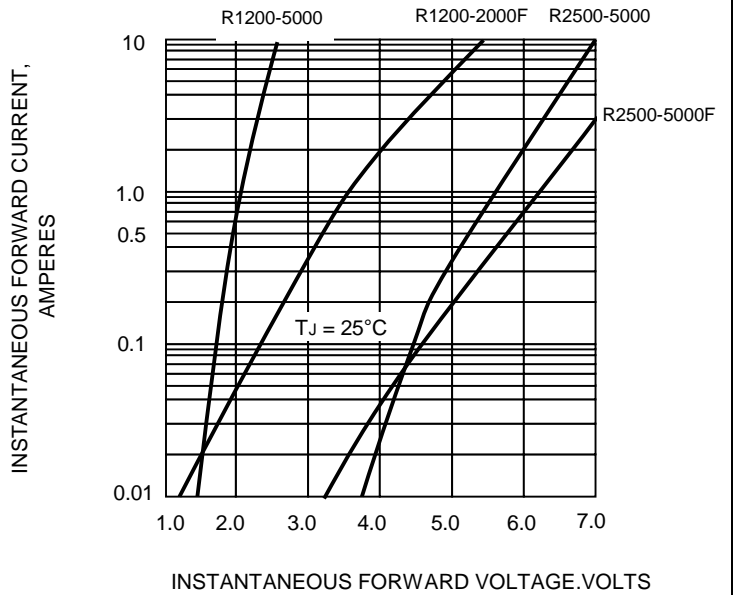


FIG.4-PEAK FORWARD SURGE CURRENT

