HIGH VOLTAGE RECTIGIERS

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

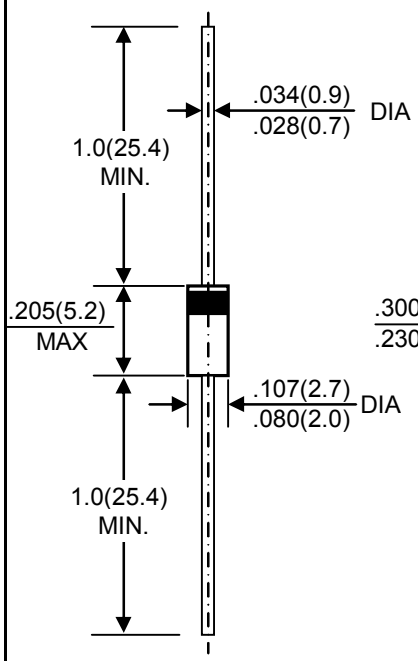
FEATURES

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

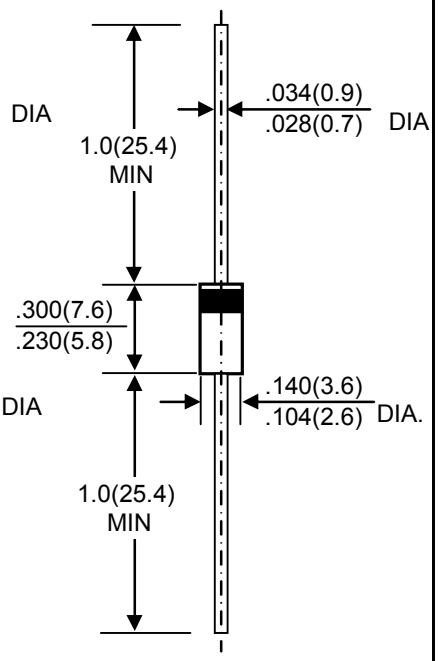
MECHANICAL DATA

- 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℃ ambient temperature unless otherwise specified.

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

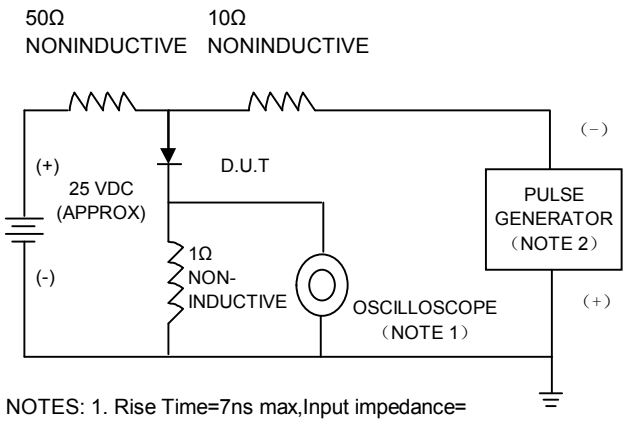
For capacitive load, derate current by 20%

CHARACTERISTICS	R1200 / R1200F	R1500 / R1500F	R1800 / R1800F	R2000 / R2000F	R2500 / R2500F	R3000 / R3000F	жR4000 / жR4000F	жR5000 / жR5000F	UNIT
Maximum Peak Reverse Voltage	1200	1500	1800	2000	2500	3000	4000	5000	Vpk
Maximum Average Rectified Current @Half-Wave Resistive Load 60Hz T_A =50 ℃	500				200				mA
Maximum Forward Peak Surge Current @8.3ms Superimposed IFM(Surge)	30								Apk
Maximum Reverse Current @ PRV@25℃ T_A I_R	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.ж 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.

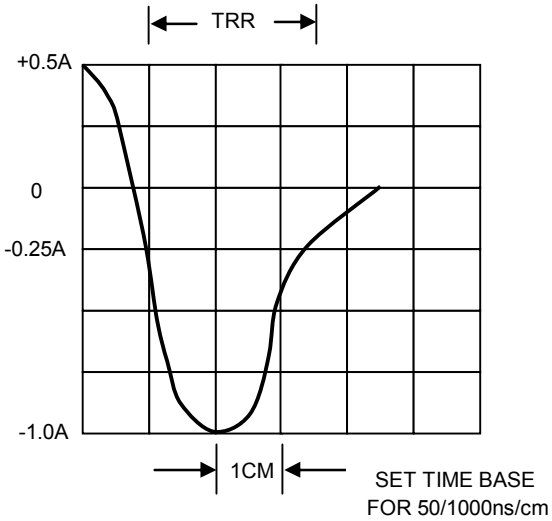
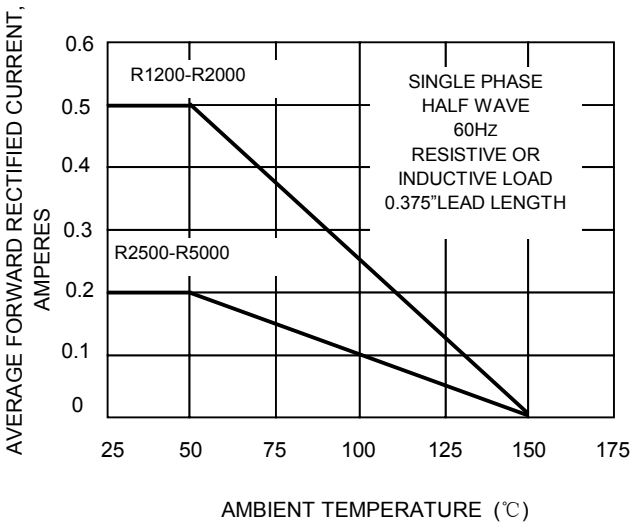


FIG. 2 – FORWARD CURRENT DERATING CURVE



FLG.3 –TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

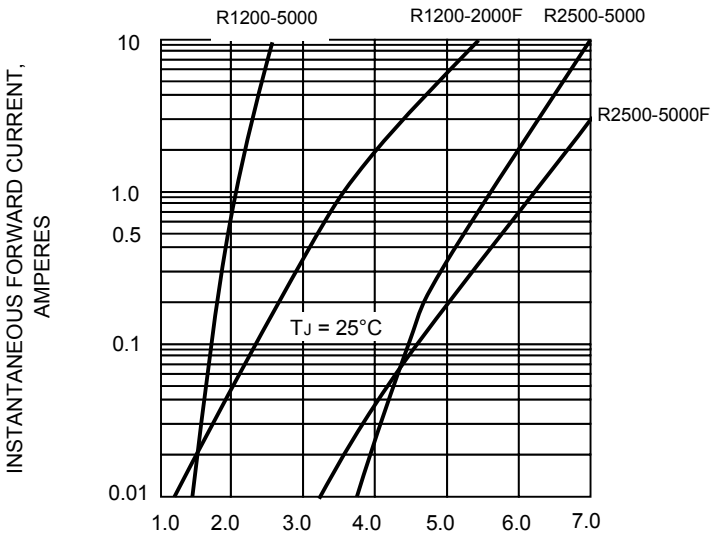


FIG.4-PEAK FORWARD SURGE CURRENT