

HIGH VOLTAGE RECTIFIERS	REVERSE VOLTAGE - 1200 to 5000 Volts FORWARD CURRENT - 0.2 / 0.5 Amperes
<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>● High voltage</li> <li>● High current capability</li> <li>● Low leakage current</li> <li>● High surge capability</li> <li>● Low cost</li> </ul> <p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li>● Case: Molded plastic use UL-94-O recognized Flame Retardant Epoxy</li> <li>● Terminal: Axial leads solderable per MIL-STD202, Method 208</li> <li>● Polarity: Color band denotes cathode</li> <li>● Mounting position: Any</li> </ul>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>DO-41</b></p> </div> <div style="text-align: center;"> <p><b>DO-15</b></p> </div> </div> <p style="text-align: center;">Dimensions in inches and (millimeters)</p>

**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								μAdc
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)	-				-				ns
	500				500				
Operating and storage Temperature	-55 to +150								°C

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

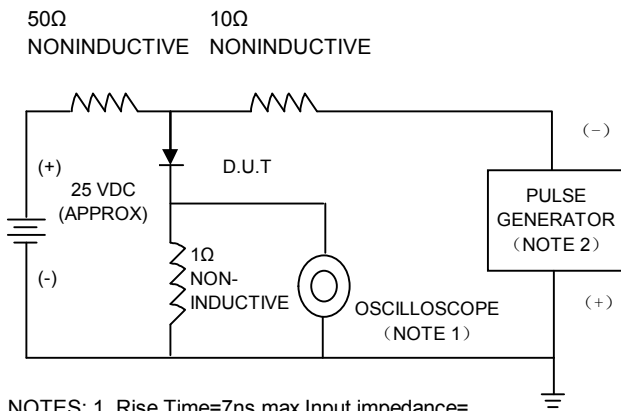
2.⌘ Package DO-15

# 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.

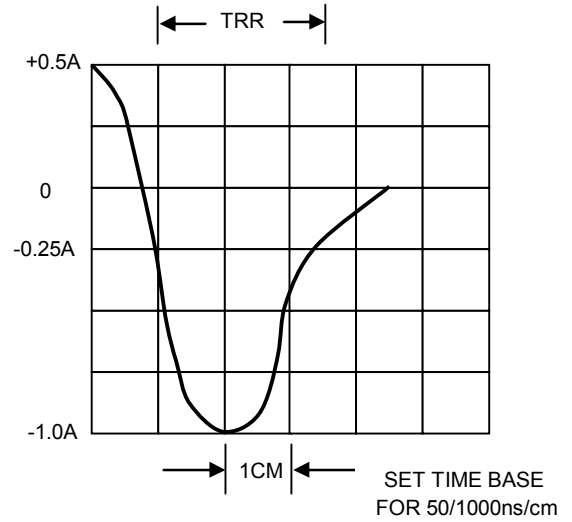


FIG. 2 – FORWARD CURRENT DERATING CURVE

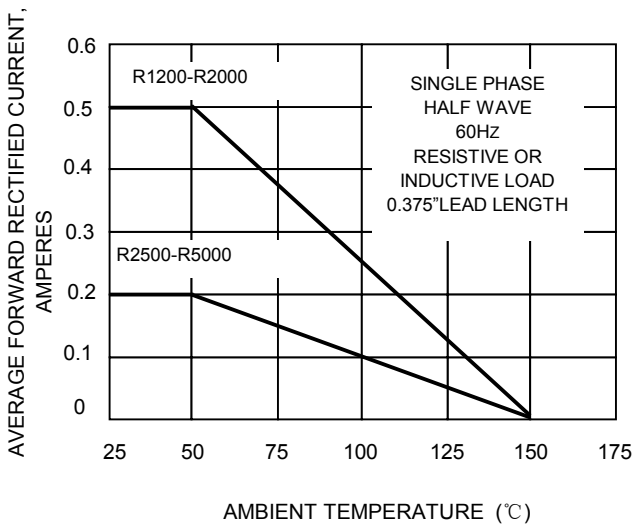


FIG.3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

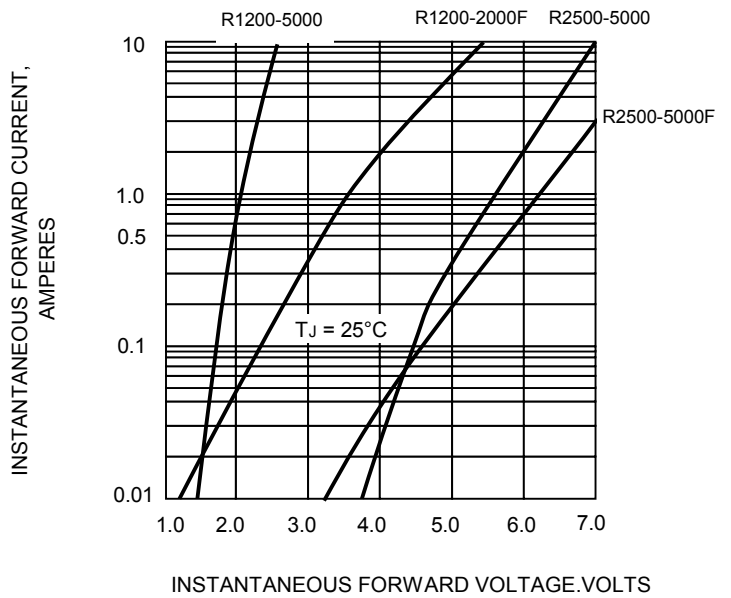


FIG.4-PEAK FORWARD SURGE CURRENT

