

HIGH VOLTAGE RECTIFIERS	REVERSE VOLTAGE - 1200 to 5000 Volts FORWARD CURRENT - 0.2 / 0.5 Amperes
<p>FEATURES</p> <ul style="list-style-type: none"> ● High voltage ● High current capability ● Low leakage current ● High surge capability ● Low cost <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> ● 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 	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>DO-41</p> </div> <div style="text-align: center;"> <p>DO-15</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 3				4.5 5				Vpk
Maximum Reverse Recovery Time (Note 1)	— 500				— 500				ns
Operating and storage Temperature	-55 to +150								°C

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

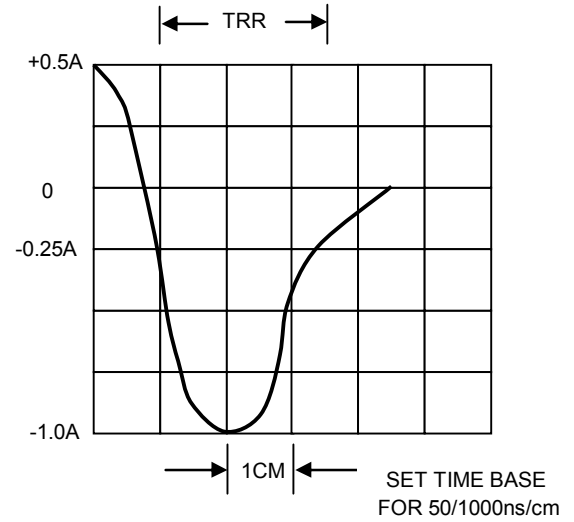
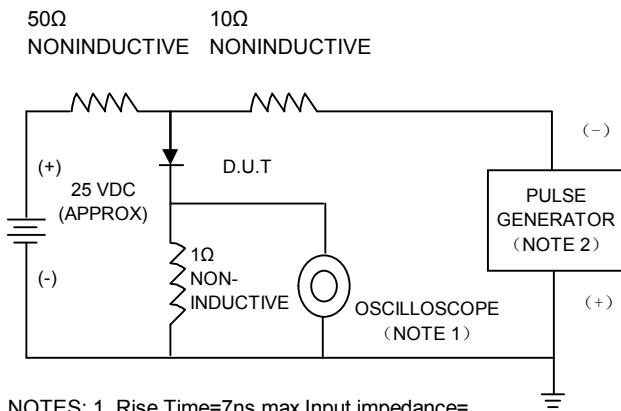
2. ⌘ Package DO-15

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

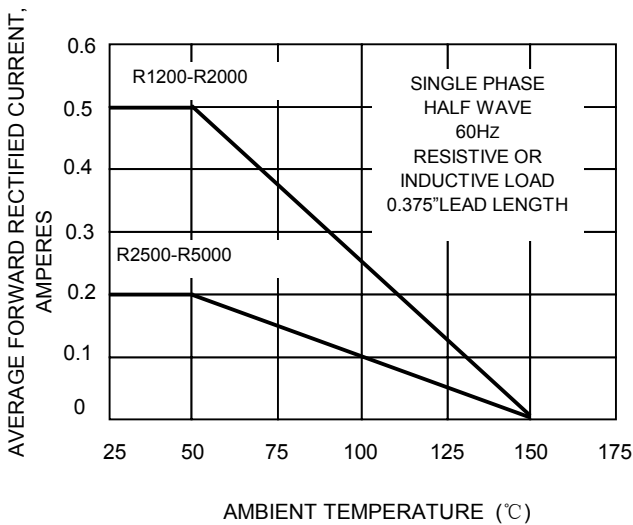


FIG.3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

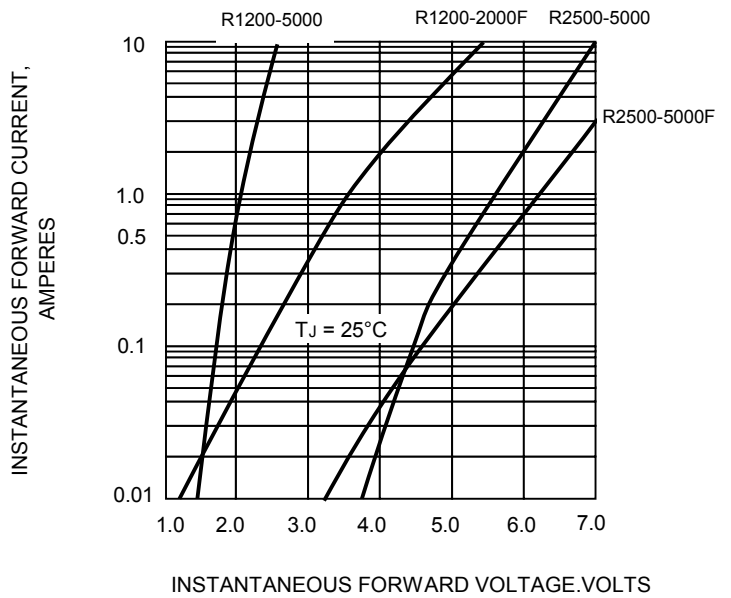


FIG.4-PEAK FORWARD SURGE CURRENT

