

RXX00F SERIES

HIGH VOLTAGE FAST RECOVERY RECTIFIER

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R2500F THRU R5000F

HIGH VOLTAGE FAST RECOVERY RECTIFIER



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HORNBY ELECTRONIC

REVERSE VOLTAGE: 2500 to 5000 VOLTS

FORWARD CURRENT: 0.2 AMPERE

FEATURES

- Fast switching
- Low leakage
- High current capability
- High surge capability
- High reliability

MECHANICAL DATA

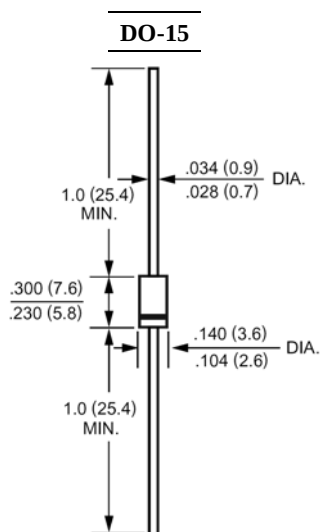
Case: Molded plastic, DO-15

Terminals: Axial leads, solderable per MIL-STD-202,
method 208 guaranteed

Polarity: Band denotes cathode

Mounting position: Any

Weight: 0.015ounce, 0.4gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

	Symbols	R2500F	R3000F	R4000F	R5000F	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	2500	3000	4000	5000	Volts
Maximum RMS Voltage	V _{RMS}	1750	2100	2800	3500	Volts
Maximum DC Blocking Voltage	V _{DC}	2500	3000	4000	5000	Volts
Maximum Average Forward Rectified Current .375" (9.5mm) Lead Length at T _A =50°C	I _(AV)	0.2				Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30				Amp
Maximum Forward Voltage at 0.2A	V _F	4.0	5.0	6.5		Volts
Maximum Reverse Current at Rated DC Blocking Voltage T _A =25°C	I _R	5.0				uAmp
Maximum Full Load Reverse Current Average, Full Cycle .375", (9.5mm) lead length at T _L = 55°C		100				uAmp
Maximum Reverse Recovery Time (Note 1)	T _{RR}	500				nS
Operating and Storage Temperature Range	T _J , T _{stg}	-55 to +150				°C

NOTES:

1- Reverse Recovery Test Conditions: $I_F=.5A$, $I_R=1A$, $I_{RR}=.25A$.

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RATINGS AND CHARACTERISTIC CURVES

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

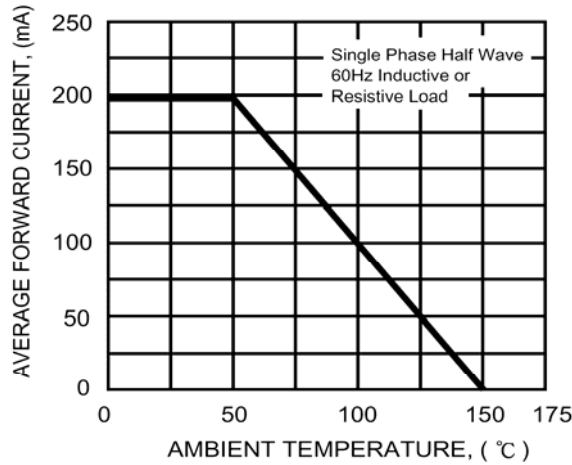


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

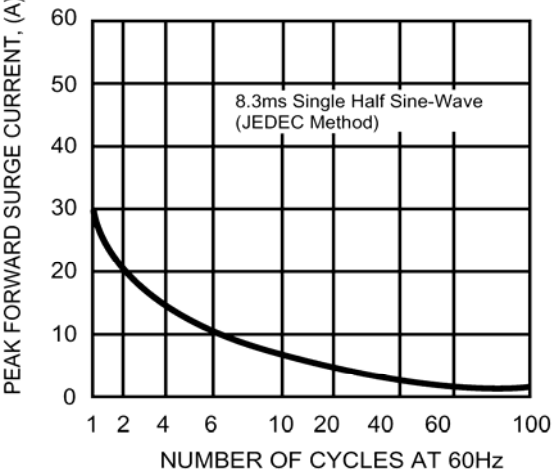
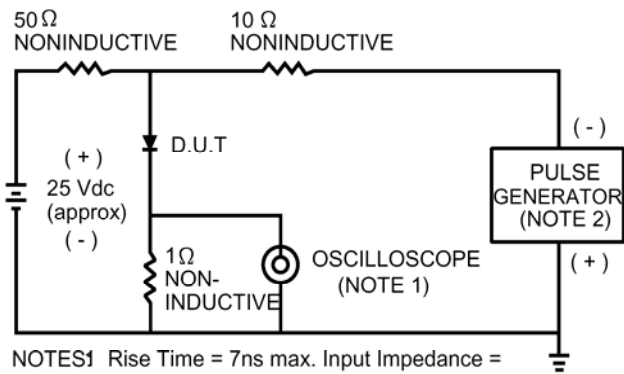


FIG. 3 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES1 Rise Time = 7ns max. Input Impedance = 1 megohm. 22 pF.
2. Rise Time = 10ns max. Source Impedance = 50 ohms.

