

R2500F THRU R3000F

HIGH VOLTAGE FAST RECOVERY RECTIFIERS

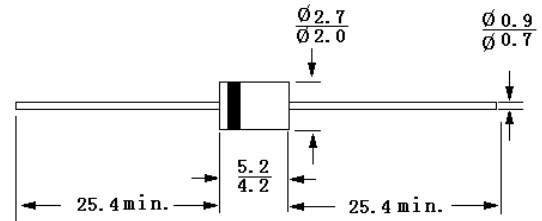
Reverse Voltage – 2500 to 3000 V

Forward Current – 0.2 A

D0-41

Features

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



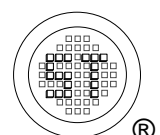
Dimensions in mm

Absolute Maximum Ratings and Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20 %.

Parameter	Symbols	R2500F	R3000F	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	2500	3000	V
Maximum RMS Voltage	V_{RMS}	1750	2100	V
Maximum DC Blocking Voltage	V_{DC}	2500	3000	V
Maximum Forward Voltage at 0.2 A	V_F	4	5	V
Maximum Average Forward Rectified Current 375" (9.5 mm) Lead Length at $T_a = 50\text{ }^{\circ}\text{C}$	$I_{F(AV)}$	0.2		A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	30		A
Maximum Reverse Current at $T_a = 25\text{ }^{\circ}\text{C}$ at Rated DC Blocking Voltage at $T_a = 100\text{ }^{\circ}\text{C}$	I_R	5	100	μA
Maximum full load reverse current average, Full cycle 0.375" (9.5 mm) lead length at $T_L = 55\text{ }^{\circ}\text{C}$		100		
Maximum reverse recovery time ¹⁾	T_{rr}	500		ns
Operating and storage temperature range	T_j, T_{stg}	- 55 to + 150		$^{\circ}\text{C}$

¹⁾ Reverse recovery test conditions $I_F = 0.5\text{ A}$, $I_R = 1\text{ A}$, $I_{RR} = 0.25\text{ A}$.



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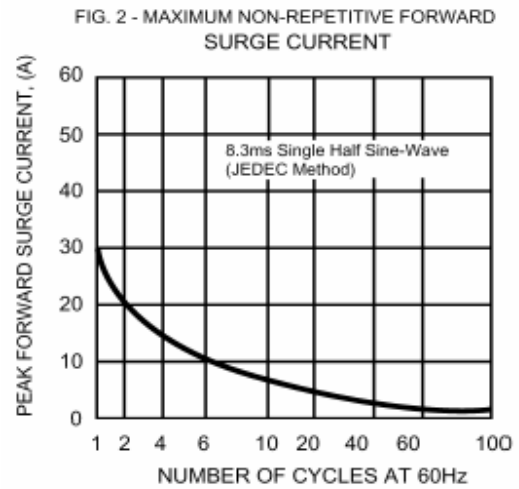
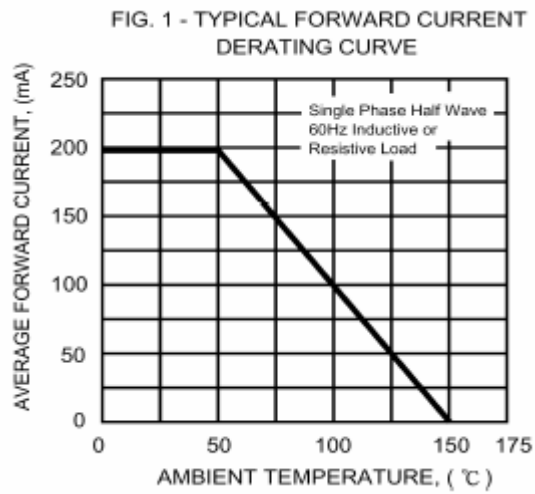


FIG. 3 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

