

R2500F THRU R5000F

HIGH VOLTAGE FAST RECOVERY RECTIFIER

VOLTAGE RANGE 2500 to 5000 Volts CURRENT 0.2 Ampere

FEATURES

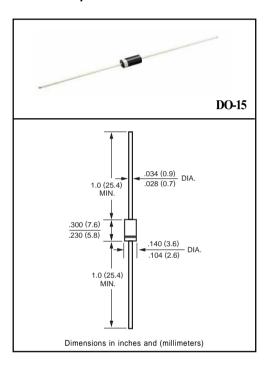
- *Fast switching
- *Low leakage
- *High reliability
- *High current capability
- *High surge capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.4 gram

MAXIMUM RATINGS AND ELECTRICAL 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%.



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	R2500F	R3000F	R4000F	R5000F	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	2500	3000	4000	5000	Volts
Maximum RMS Volts	VRMS	1750	2100	2800	3500	Volts
Maximum DC Blocking Voltage	VDC	2500	3000	4000	5000	Volts
Maximum Average Forward Rectified Current at TA = 50°C	lo		mAmps			
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM		Amps			
Operating and Storage Temperature Range	TJ, TSTG		°C			

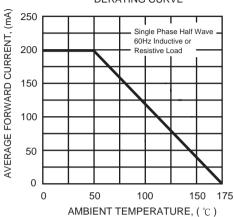
ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	R2500F	R3000F	R4000F	R5000F	UNITS
Maximum Instantaneous Forward Voltage at 0.2A DC	VF	4.0	5.0	6	Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage TA = 25°C	lr.	uAmps				
Maximum Full Load Reverse Current Average, Full Cycle .375" (9.5mm) lead length at TL = 55°C		uAmps				
Maximum Reverse Recovery Time (Note)	trr		nSec			

NOTES: Test Conditions: IF = 0.5A, IR = -1.0A, IRR = -0.25A

RATING AND CHARACTERISTIC CURVES (R2500F THRU R5000F)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE



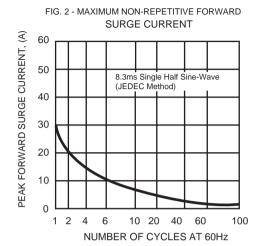


FIG. 3 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

