



HIGH VOLTAGE FAST RECOVER RECTIFIER VOLTAGE RANGE 6000 Volts CURRENT 0.2 Ampere

FEATURES

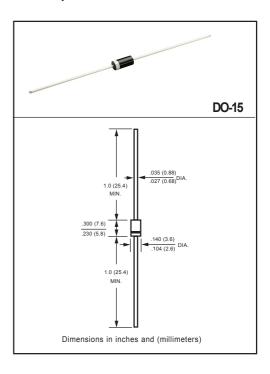
- * Low cost
- * Low leakage
- * Low forward voltage drop
- * High current capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any * Weight: 0.40 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	R6000F	UNITS	
Maximum Recurrent Peak Reverse Voltage	VRRM	6000	Volts	
Maximum RMS Volts	VRMS	4200	Volts	
Maximum DC Blocking Voltage	VDC	6000	Volts	
Maximum Average Forward Rectified Current at TA = 50°C	Io	200	mAmps	
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	30	Amps	
Typical Current Square Time	I ² t	3.7	A ² /Sec	
Typical Thermal Resistance	RθJA	65	°C/W	
	RθJL	30		
Typical Junction Capacitance (Note)	Cı	30	pF	
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150	°C	

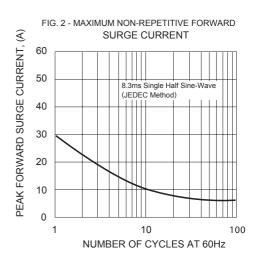
ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

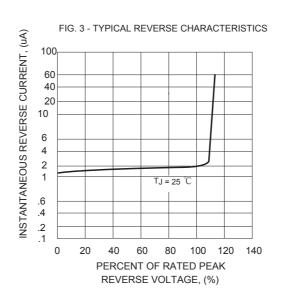
CHARACTERIS1	ics	SYMBOL	R6000F	UNITS
Maximum Instantaneous Forward Voltage	at 0.2A DC	VF	6.5	Volts
Maximum DC Reverse Current	@TA = 25°C		5.0	
at Rated DC Blocking Voltage	@Ta =100°C	IR	50	uAmps
Maximum Full Load Reverse Current Ave .375", (9.5mm) lead length at TL = 75°C	erage, Full Cycle		30	uAmps

- NOTES: 1.Measured at 1 MHz and applied reverse voltage of 4.0 volts.
 - 2. "ROHS compliant
 - 3. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

RATING AND CHARACTERISTIC CURVES (R6000F)

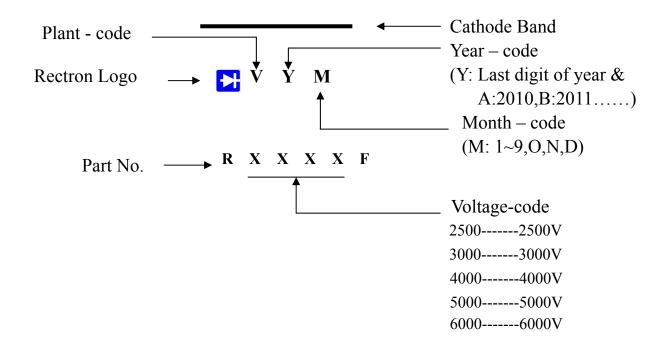
FIG. 1 - TYPICAL FORWARD CURRENT **DERATING CURVE** AVERAGE FORWARD CURRENT, (mA) 250 Single Phase Half Wave 60Hz Inductive or 200 Resistive Load 150 100 50 0 0 50 100 150 175 AMBIENT TEMPERATURE, (°C)







Marking Description



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-15	-B	500	194*84*21	415*220*255	25,000	12.74

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-15	-T	4,000	4,000	5.0	52	330	355*350*335	16,000	10.05

AMMO PACK

PACKAGE	PACKING CODE	REEL (EA)	COMPONENT SPACE(mm)	TAPE SPACE (mm)	BOX SIZE (mm)	CARTON SIZE(mm)	CARTON (EA)	GROSS WEIGHT (Kg)
DO-15	-F	1,500	5.0	52	255*73*100	400*268*225	15,000	8.8



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