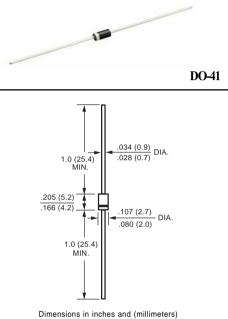


# HIGH VOLTAGE FAST RECOVERY RECTIFIER

VOLTAGE RANGE 1200 to 2000 Volts CURRENT 0.2 to 0.5 Ampere

# FEATURES \*Fast switching \*Low leakage \*High current capability \*High surge capability \*High reliability \*High reliability \*High reliability MECHANICAL DATA \* Case: Molded plastic \* Epoxy: Device has UL flammability classification 94V-O \* Lead: MIL-STD-202E method 208C guaranteed \* Mounting position: Any \* Weight: 0.35 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.

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

For capacitive load, derate current by 20%.

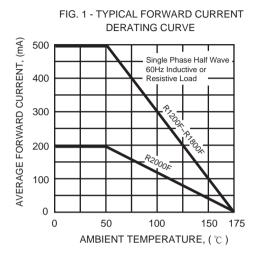
RATINGS	SYMBOL	R1200F	R1500F	R1800F	R2000F	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	1200	1500	1800	2000	Volts
Maximum RMS Volts	Vrms	840	1050	1260	1400	Volts
Maximum DC Blocking Voltage	VDC	1200	1500	1800	2000	Volts
Maximum Average Forward Rectified Current at TA = 50°C	lo		500	200	mAmps	
Peak 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		٥C			

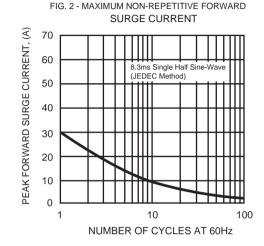
## ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	R1200F	R1500F	R1800F	R2000F	UNITS
Maximum Instantaneous Forward Voltage at 0.5A/0.2A DC	VF	2.5 4.				Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage TA = 25°C	IR	uAmps				
Maximum Full Load Reverse Current Average, Full Cycle .375", (9.5mm) lead length at T∟ = 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 (R1200F THRU R2000F)





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

