

**HIGH VOLTAGE SILICON RECTIFIER**

**VOLTAGE RANGE 1200 to 2000 Volts CURRENT 0.2 to 0.5 Ampere**

**FEATURES**

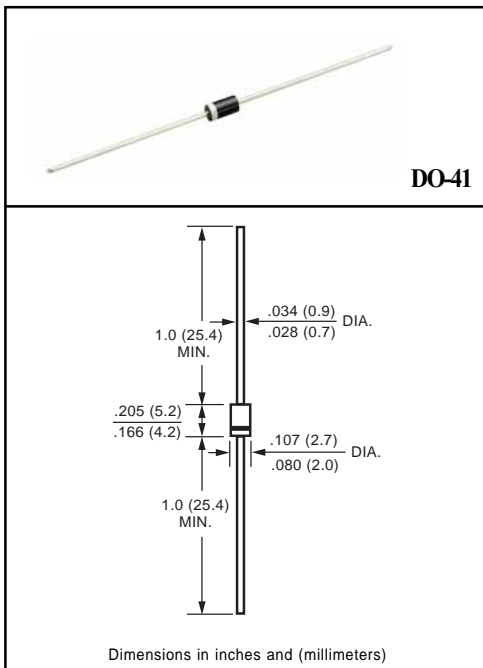
- \* Low cost
- \* Low leakage
- \* Low forward voltage drop
- \* High current capability

**MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: Device has UL flammability classification 94V-0
- \* 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.  
 For capacitive load, derate current by 20%.



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

RATINGS		SYMBOL	R1200	R1500	R1800	R2000	UNITS
Maximum Recurrent Peak Reverse Voltage		V <sub>RRM</sub>	1200	1500	1800	2000	Volts
Maximum RMS Volts		V <sub>RMS</sub>	840	1050	1260	1400	Volts
Maximum DC Blocking Voltage		V <sub>DC</sub>	1200	1500	1800	2000	Volts
Maximum Average Forward Rectified Current at TA = 50°C		I <sub>O</sub>	500			200	mAmps
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		I <sub>FSM</sub>	30				Amps
Typical Junction Capacitance (Note)		C <sub>J</sub>	30				pF
Operating and Storage Temperature Range		T <sub>J</sub> , T <sub>STG</sub>	-55 to +150				°C

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

CHARACTERISTICS		SYMBOL	R1200	R1500	R1800	R2000	UNITS
Maximum Instantaneous Forward Voltage at 0.5A/0.2A DC		V <sub>F</sub>	2.0			3.0	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ TA = 25°C	I <sub>R</sub>	5.0				uAmps
	@ TA = 100°C		50				
Maximum Full Load Reverse Current Average, Full Cycle .375", (9.5mm) lead length at TL = 75°C				30			uAmps

NOTES : Measured at 1 MHz and applied reverse voltage of 4.0 volts.

# RATING AND CHARACTERISTIC CURVES ( R1200 THRU R2000 )

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

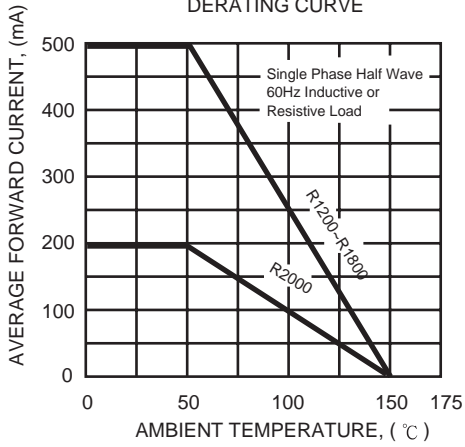


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

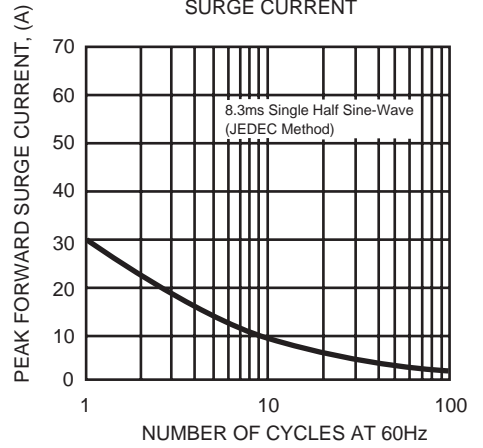
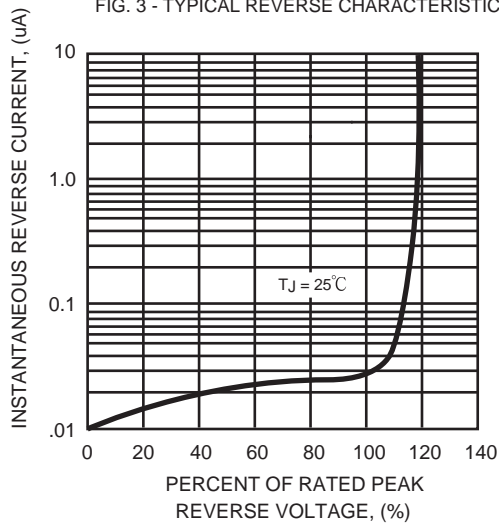


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS



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