# R1200 THRU R2000

## HIGH VOLTAGE SILICON RECTIFIERS Reverse Voltage – 1200 to 2000 Volts Forward Current – 0.2 to 0.5 Ampere

DO-41

### Features

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

#### **Mechanical Data**

- Case: Molded plastic, DO-41
- Mounting Position: Any
- Terminals: Axial leads, solderable per MIL-STD-202

### **Absolute Maximum Ratings and Characteristics**

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

•	*	Symbols	R1200	R1500	R1800	R2000	Units
Maximum recurrent peak reverse voltage		V <sub>RRM</sub>	1200	1500	1800	2000	Volts
Maximum RMS voltage		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 $T_A$ = 55°C		Ι <sub>Ο</sub>	500 200			mAmps	
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)		I <sub>FSM</sub>	30			Amps	
Maximum instantaneous forward voltage at 0.5A/0.2A DC		V <sub>F</sub>	2 3		Volts		
Maximum DC reverse current at rated DC blocking voltage	@T <sub>A</sub> = 25°C		5 100			- µAmps	
	@T <sub>A</sub> = 100°C	I <sub>R</sub>					
Maximum full load reverse current average, Full cycle 0.375" (9.5 mm) lead length at $T_L$ = 75 $^{\circ}$ C		]	30			µAmps	
Typical junction capacitance (Note)		CJ	30			pF	
Operating and storage temperature range		T <sub>J</sub> ,T <sub>S</sub>	-55 to +150			°C	

Notes: Measured at 1MH<sub>z</sub> and applied reverse voltage of 4volts.

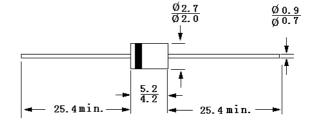


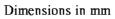




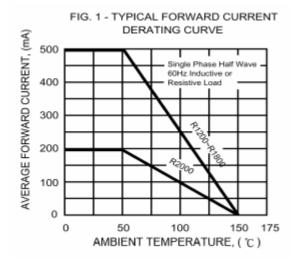


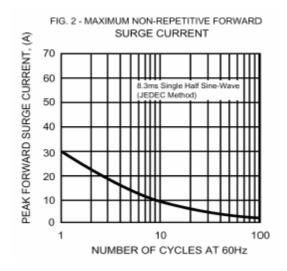
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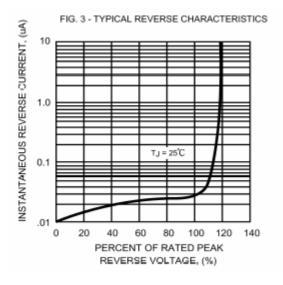




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