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

5. 2 4. 2 4. 2 4. 2 5. 4 min. —— 25. 4 min

Dimensions in mm

Mechanical Data

Case: Molded plastic, DO-41Mounting Position: Any

Terminals: Axial leads, solderable per MIL-STD-202

Absolute Maximum Ratings and 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%.

		Symbols	R1200	R1500	R1800	R2000	Units
Maximum recurrent peak reverse voltage		V_{RRM}	1200	1500	1800	2000	Volts
Maximum RMS voltage		V _{RMS}	840	1050	1260	1400	Volts
Maximum DC blocking voltage		V _{DC}	1200	1500	1800	2000	Volts
Maximum average forward rectified current at $T_A = 55^{\circ}C$		Io	500 200			mAmps	
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)		I _{FSM}	30			Amps	
Maximum instantaneous forward voltage at 0.5A/0.2A DC		V _F	2 3			Volts	
Maximum DC reverse current at rated DC blocking voltage	@T _A = 25°C	5				- µAmps	
	@T _A = 100°C	I _R	100			μΑπρο	
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)		C _J	30			pF	
Operating and storage temperature range		T _J ,T _{Stg}	-55 to +150			$^{\circ}$	

Notes: Measured at 1MH_Z and applied reverse voltage of 4volts.

Dated: 30/03/2005 H

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