

R1200 THRU R2000

HIGH VOLTAGE SILICON RECTIFIER Reverse Voltage - 1200 to 2000 Volts Forward Current - 0.2 to 0.5 Ampere

Features

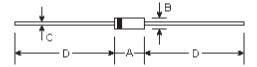
Low cost

Low leakage

Low forward voltage drop

High current capability

DO-41



Mechanical Data

• Case: Molded plastic

• Epoxy: UL94V-0 rate flame retardant

• Lead: MIL-STD-202 method 208C guaranteed

• Mounting Position: Any

• Weight: 0.012 ounce, 0.335 gram

DIMENSIONS									
DIM	inches		m	Note					
	Min.	Max.	Min.	Max.	Note				
Α	0.165	0.205	4.2	5.2					
В	0.079	0.106	2.0	2.7	ф				
С	0.028	0.034	0.71	0.86	ф				
D	1.000	-	25.40	-					

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	R1200	R1500	R1800	R2000	Units
Maximum repetitive 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 0.375" (9.5mm) lead length at $\rm T_A=50^{\circ}C$	I _(AV)	500 200				mAmps
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method)	I _{FSM}	30.0				Amps
Maximum instantaneous forward voltage at 0.5/0.2A DC	V _F	2.0 3.0				Volts
Maximum full load reverse current average, full cycle 0.375" (9.5mm) lead length at T _L =75 $^{\circ}$ C	I _{R(AV)}		μА			
Maximum DC reverse current at rated DC blocking voltage $T_A^A=100^{\circ}C$	I _R		μА			
Typical junction capacitance (Note 1)	C _J	·	ρF			
Operating and storage temperature range	T _J , T _{STG}		$^{\circ}$			

Note:

(1) Measured at 1.0MHz and applied reverse voltage of 4.0 volts

RATINGS AND CHARACTERISTIC CURVES

FIG. 1 - TYPICAL FORWARD CURRENT DERTAING CURVE

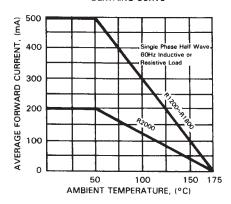


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

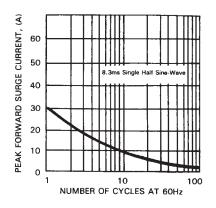


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

