

R2500 THRU R5000

HIGH VOLTAGE SILICON RECTIFIER



康比電子
HORNBY ELECTRONIC

REVERSE VOLTAGE: 2500 to 5000 VOLTS
FORWARD CURRENT: 0.2 AMPERE

FEATURES

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

MECHANICAL DATA

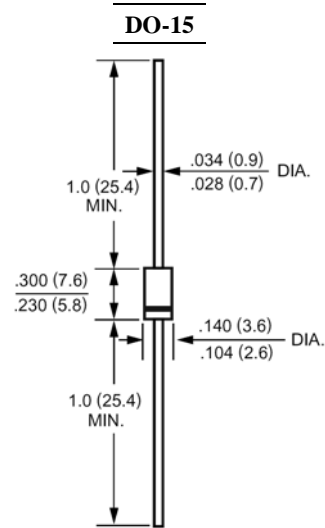
Case: Molded plastic, DO-15

Terminals: Axial leads, solderable per MIL-STD-202, method 208 guaranteed

Polarity: Band denotes cathode

Mounting position: Any

Weight: 0.015ounce, 0.4gram



Dimensions in inches and (millimeters)

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	R2500	R3000	R4000	R5000	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	2500	3000	4000	5000	Volts
Maximum RMS Voltage	V_{RMS}	1750	2100	2800	3500	Volts
Maximum DC Blocking Voltage	V_{DC}	2500	3000	4000	5000	Volts
Maximum Average Forward Rectified Current .375" (9.5mm) Lead Length at $T_A=50^\circ\text{C}$	$I_{(AV)}$	0.2				Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30				Amp
Maximum Forward Voltage at 0.2A	V_F	3.0	4.0	5.0		Volts
Maximum Reverse Current at $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A=100^\circ\text{C}$	I_R	5.0				uAmp
Maximum Full Load Reverse Current Average, Full Cycle .375", (9.5mm) lead length at $T_L = 75^\circ\text{C}$		50				
Typical Junction Capacitance (Note 1)	C_J	30				pF
Operating and Storage Temperature Range	T_J, T_{stg}	-55 to +150				°C

NOTES:

1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.

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RATINGS AND CHARACTERISTIC CURVES

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

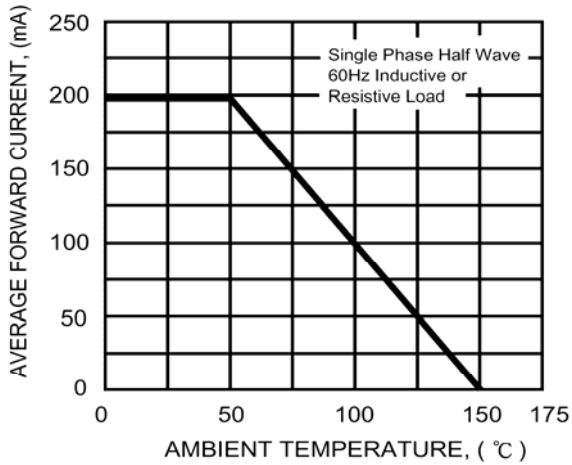


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

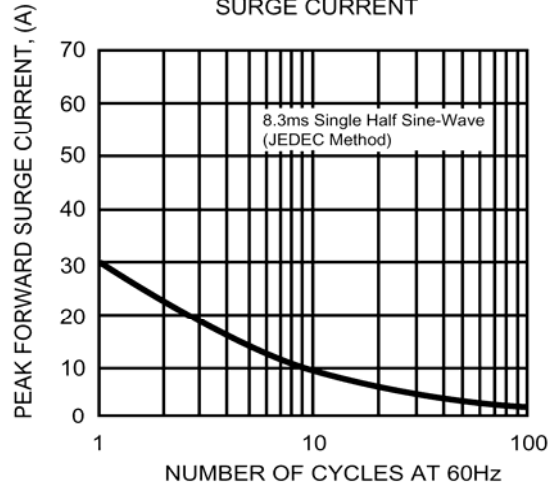


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

