

R1200 THRU R3000



HIGH VOLTAGE SILICON RECTIFIERS



FEATURES

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability

MECHANICAL DATA

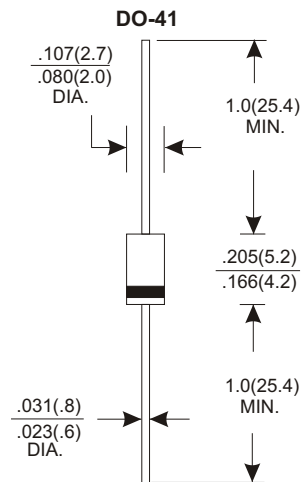
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.34 grams

VOLTAGE RANGE

1200 to 3000 Volts

CURRENT

500 & 200 m Ampere



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	R1200	R1500	R1600	R1800	R2000	R2500	R3000	UNITS
Maximum Recurrent Peak Reverse Voltage	1200	1500	1600	1800	2000	2500	3000	V
Maximum RMS Voltage	840	1050	1120	1260	1400	1750	2100	V
Maximum DC Blocking Voltage	1200	1500	1600	1800	2000	2500	3000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at Ta=50°C	500				200			mA
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)					30			A
Maximum Instantaneous Forward Voltage at 0.5A/0.2A D.C.	2.0				3.0		4.0	V
Maximum DC Reverse Current Ta=25°C					5.0			A
at Rated DC Blocking Voltage Ta=100°C					50			A
Typical Junction Capacitance (Note 1)					30			pF
Operating and Storage Temperature Range Tj, TSTG					-65 — +175			°C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

RATING AND CHARACTERISTIC CURVES (R1200 THRU R3000)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

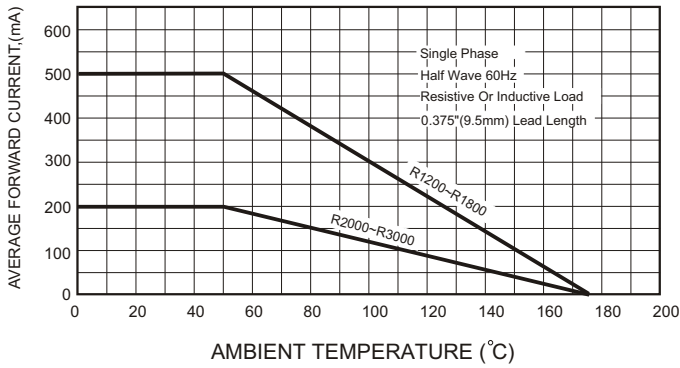


FIG.2 - TYPICAL REVERSE CHARACTERISTICS

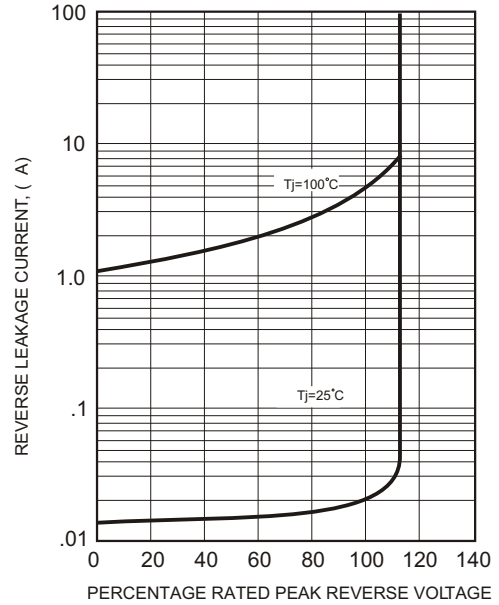


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

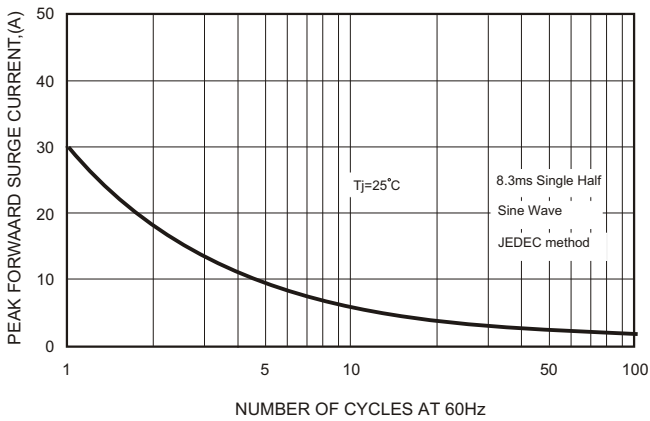


FIG.4-TYPICAL JUNCTION CAPACITANCE

