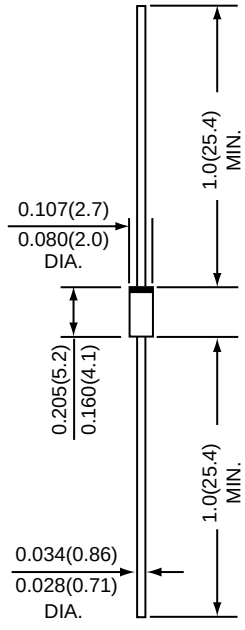
R1200 THRU R2000

HIGH VOLTAGE SILICON RECTIFIER

Reverse Voltage - 1200 to 2000 Volts *Forward Current - 0.2 to 0.5 Amperes*

DO-204AL



*Dimensions in inches and (millimeters)



FEATURES

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

MECHANICAL DATA

Case : JEDEC DO-204AL molded plastic
Epoxy : UL 94V-O rate flame retardant
Lead : MIL-STD-202F method 208C guaranteed
Mounting Position : Any
Weight : 0.35 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	*SYMBOLS*	***R1200***	***R1500***	***R1800***	***R2000***	*UNITS*
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	Volts
Maximum average forward rectified current at T_A=50°C	$I_{(AV)}$	0.5			0.2	Amps
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 0.5 / 0.2 A	V_F	2.0			3.0	Volts
Maximum full load reverse current, full cycle average 0.375" (9.5mm) lead length at T_L=75°C	$I_{R(AV)}$	30				uA
Maximum DC reverse current at rated DC blocking voltage T_A=25°C T_A=100°C	I_R	5.0 50				uA
Typical junction capacitance (NOTE)	C_J	30				pF
Operating junction and storage temperature range	T_J,T_{STG}	-65 to +175				°C

NOTES : Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

RATINGS AND CHARACTERISTIC CURVES R1200 THRU R2000

FIG.1 - FORWARD CURRENT DERATING CURVE

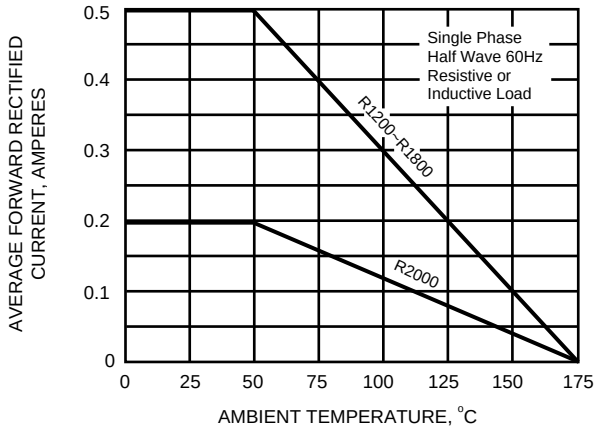


FIG.2 - MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT

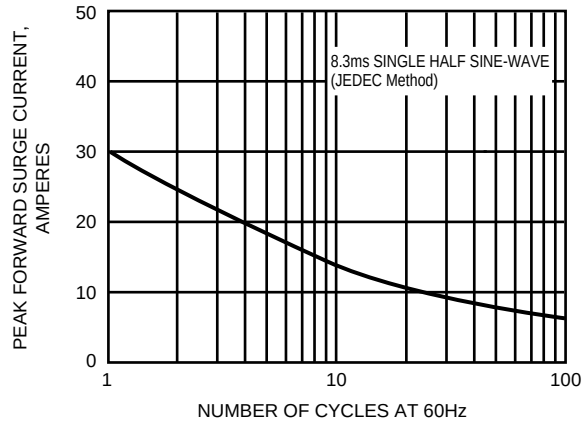


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

