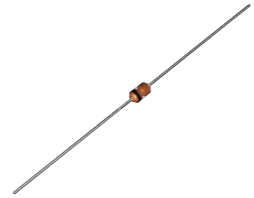


# R1200G THRU R2000G

Glass Passivated High Voltage Silicon Rectifiers  
 Reverse Voltage 1200 to 2000V Forward Current 0.2 to 0.5A

## Features

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



DO-204AL (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



## Absolute 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%.

Parameter	Symbol	R1200G	R1500G	R1800G	R2000G	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	1200	1500	1800	2000	V
Maximum RMS Voltage	$V_{RMS}$	840	1050	1260	1400	V
Maximum DC Blocking Voltage	$V_{DC}$	1200	1500	1800	2000	V
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Length at $T_A=50^\circ\text{C}$	$I_{(AV)}$	500			200	mA
Peak Forward Surge Current 8.3mS Single Half Sine-Wave Superimposed on Rated Load (MIL-STD-750D 4066 Method)	$I_{FSM}$	30.0				A
Maximum Instantaneous Forward Voltage at 0.5/0.2A DC	$V_F$	2.0			3.0	V
Maximum Full Load Reverse Current Average, Full Cycle 0.375" (9.5mm) Lead Length at $T_L=75^\circ\text{C}$	$I_{R(AV)}$	30.0				uA
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A=25^\circ\text{C}$ $T_A=100^\circ\text{C}$	$I_R$	5.0 50.0				uA
Typical Junction Capacitance (Note 1)	$C_J$	30.0				pF
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150				°C

Note:

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

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## Ratings and Characteristics Curves ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

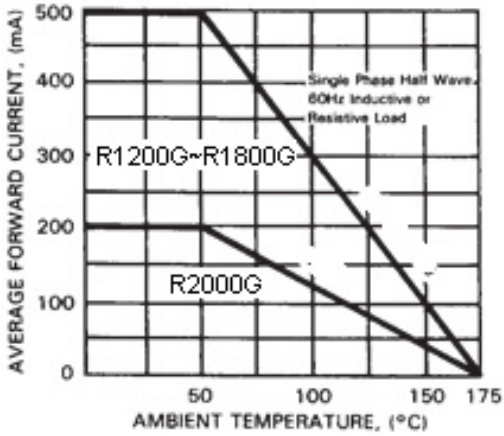


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

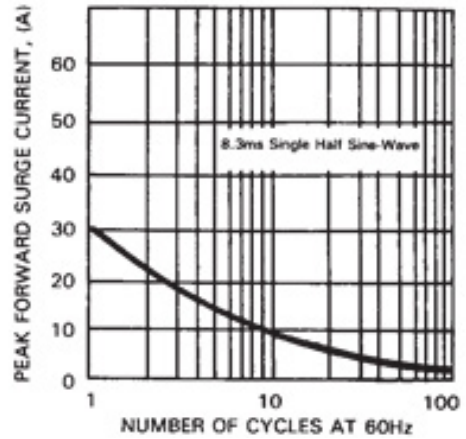
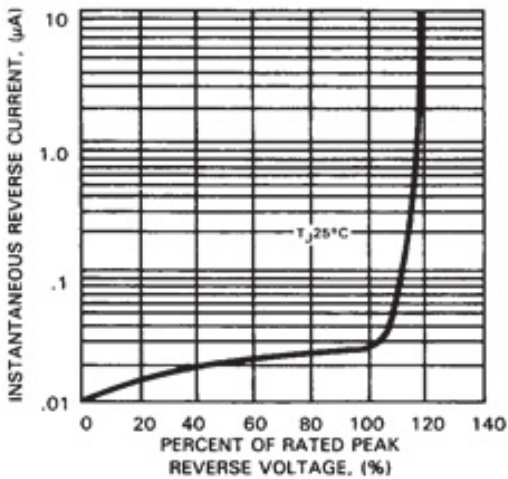


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

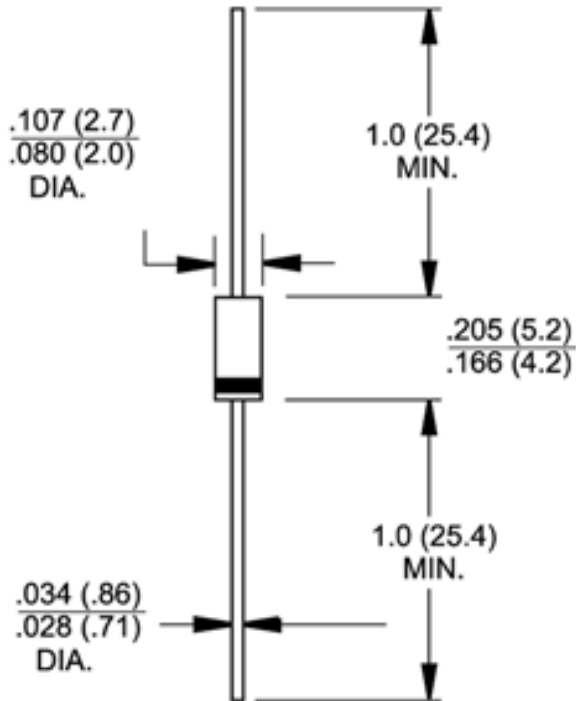


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## Package Outline Dimensions

DO-204AL(DO-41)



**Dimensions in inches and (millimeters)**