

Reverse Voltage 1200 to 2000 Volts

High Voltage Silicon Rectifiers Forward Current 0.2 to 0.5 Ampere

Features

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



DO-204AL (DO-41)

Mechanical Data

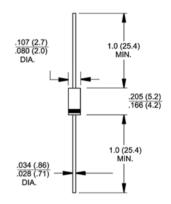
◆ Case: Molded plastic DO-204AL (DO-41)

◆ Epoxy: Device has UL flammability classification 94V-O

◆ Lead: MIL-STD-202E method 208C guaranteed

Mounting position: Any

◆ Weight: 0.012 ounce, 0.335 gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

To Capacitive load, defate current by 2070.						
Parameter	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 at T _A =50°C	I _{F(AV)}	500 200			200	mAmps
Peak forward surge current, 8.3 ms single half sine- wave superimposed on rated load (JEDEC Method)	I _{FSM}	30.0				Amps
Maximum instantaneous forward voltage at 0.5A/0.2A DC	V _F	2.0			3.0	Volts
Maximum DC reverse current @T _A =25°C at rated DC blocking voltage @T _A =100°C	I _R	5.0 50				uА
Maximum full load reverse current average, full cycle .375" (9.5mm) lead length at T_L =75°C	I _{R(AV)}	30				uA
Typical junction capacitance (Note 1)	C _J	30				pF
Operating junction 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 volts.

RATINGS AND CHARACTERISTIC CURVES

