

Reverse Voltage 2500 to 5000 Volts

High Voltage Silicon Rectifiers Forward Current 0.2 Ampere

## **Features**

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



DO-204AC (DO-15)

## **Mechanical Data**

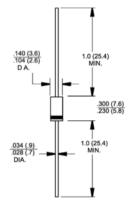
◆ Case: Molded plastic DO-204AC (DO-15)

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

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

Mounting position: Any

◆ Weight: 0.014 ounce, 0.395 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%.

Parameter	Symbols	R2500	R3000	R4000	R5000	Units
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	2500	3000	4000	5000	Volts
Maximum RMS voltage	V <sub>RMS</sub>	1750	2100	2800	3500	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	2500	3000	4000	5000	Volts
Maximum average forward rectified current at T <sub>A</sub> =50°C	I <sub>F(AV)</sub>	200				mAmps
Peak forward surge current, 8.3 ms single half sine- wave superimposed on rated load (JEDEC Method)	L <sub>FSM</sub>	30.0				Amps
Maximum instantaneous forward voltage at 0.5A/0.2A DC	V <sub>F</sub>	3.0	4.0	5.0		Volts
Maximum DC reverse current @T <sub>A</sub> =25°C at rated DC blocking voltage @T <sub>A</sub> =100°C	I <sub>R</sub>	5.0 50				uA
Maximum full load reverse current average, full cycle .375" (9.5mm) lead length at T <sub>L</sub> =75°C	I <sub>R(AV)</sub>	30				uA
Typical junction capacitance (Note 1)	C <sub>J</sub>	30				pF
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150				°C

Notes: 1. Measured at 1 MHZ and applied reverse voltage of 4.0 volts.

## **RATINGS AND CHARACTERISTIC CURVES**

