

Features

- Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Low forward voltage drop
- High current capability

Mechanical Data

- Case: JEDEC DO-204AC (DO-15) molded plastic
- Weight: 0.014 ounce, 0.39 gram
- Polarity: Color band denotes cathode
- UL recognition 94V-0
- Mounting position: Any



DO-204AC (DO-15)

Maximum Ratings & 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	GSB2B5	GSB2C0	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	150	200	V
Maximum RMS Voltage	V_{RMS}	105	140	V
Maximum DC Blocking Voltage	V_{DC}	150	200	V
Maximum Average Forward Rectified Current 0.375"(9.5mm) Lead Length @ $T_L=100^{\circ}C$	$I_{F(AV)}$	2.0		A
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed On Rated Load	I_{FSM}	60		A
Maximum DC Reverse Current @ $T_J=25^{\circ}C$ at rated DC Blocking Voltage @ $T_J=100^{\circ}C$	I_R	0.01 2		mA
Maximum Forward Voltage @ 2.0A DC	V_F	0.90		V
Typical Thermal Resistance (Note 1)	$R_{\theta JL}$	27		$^{\circ}C/W$
Operating Junction Temperature Range	T_J	-55 to +150		$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +150		$^{\circ}C$

Notes: 1. Thermal Resistance Junction to Lead.

Ratings and Characteristics Curves

($T_A = 25^\circ\text{C}$ unless otherwise noted)

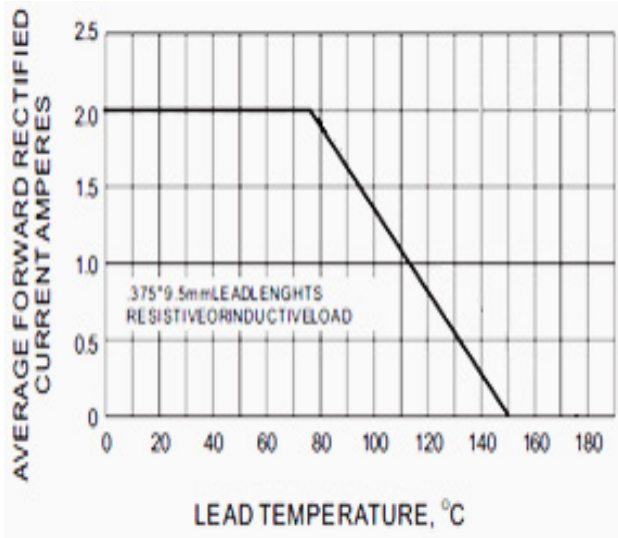


Figure 1. Forward Current Derating Curve

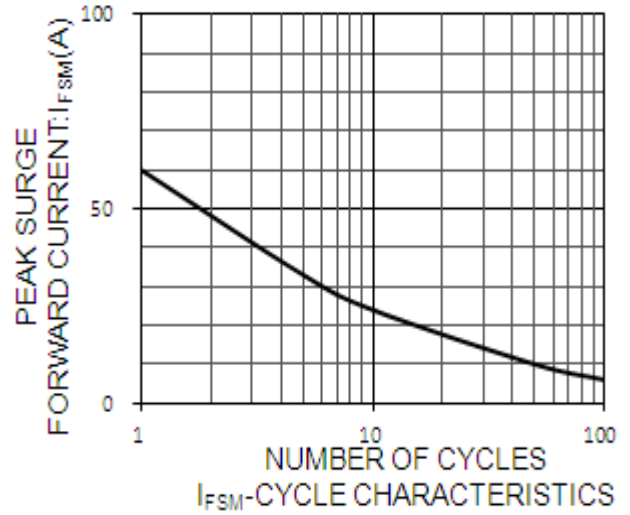


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

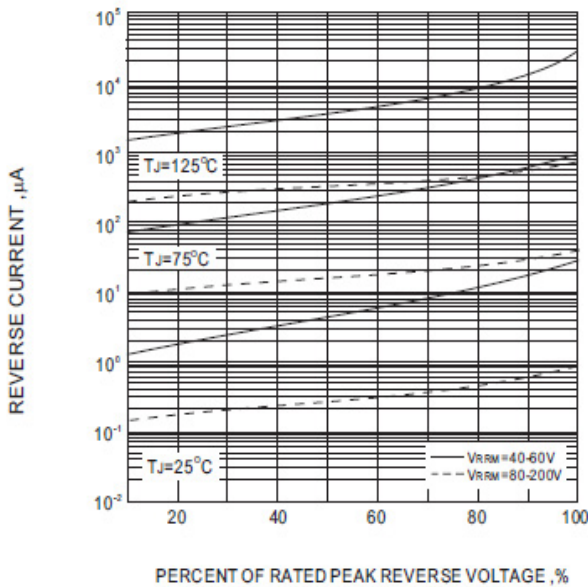


Figure 3. Typical Reverse Characteristics

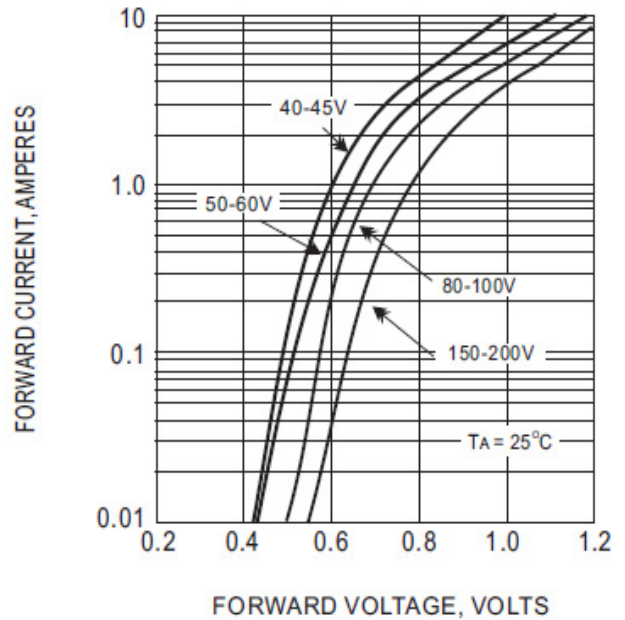
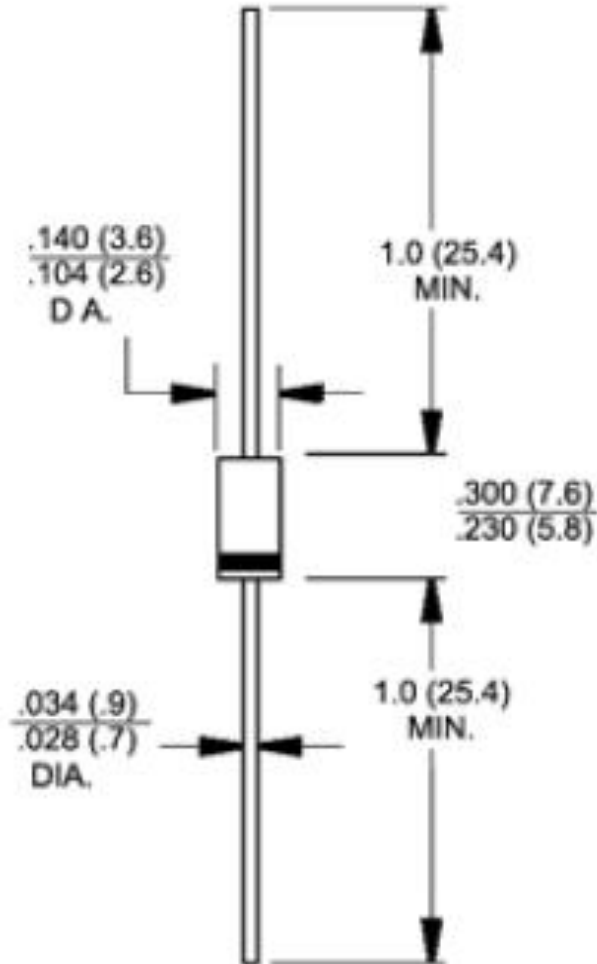


Figure 4. Typical Instantaneous Forward Characteristics

Package Outline Dimensions

DO-204AC (DO-15)



Dimensions in inches and (millimeters)