

BY2000

PRV : 2000 Volts

Io : 3.0 Amperes

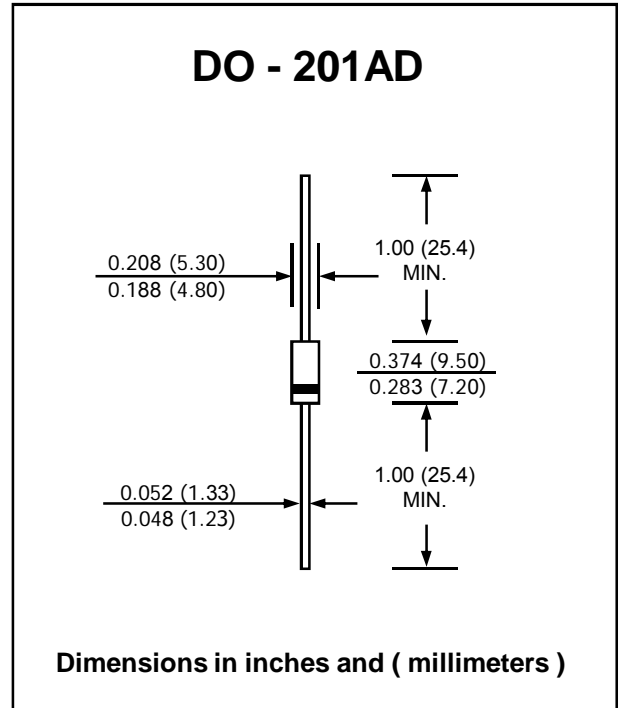
FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : DO-201AD Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.929 grams

SILICON RECTIFIER DIODE



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	2000	V
Maximum RMS Voltage	V_{RMS}	1400	V
Maximum DC Blocking Voltage	V_{DC}	2000	V
Maximum Average Forward Current 0.375"(9.5mm) Lead Length $T_a = 50\text{ }^\circ\text{C}$	I_F	3.0	A
Peak Forward Surge Current 50/60 Hz half sine wave Superimposed	I_{FSM}	100/110	A
Maximum Forward Voltage at $I_F = 3.0$ Amps.	V_F	1.1	V
Maximum Reverse Current $V_R = V_{RRM}$ $T_j = 25\text{ }^\circ\text{C}$	I_R	20	μA
Thermal Resistance Junction to Ambient air (Note1)	$R_{\theta JA}$	25	K/W
Thermal Resistance Junction to Lead	$R_{\theta JL}$	10	K/W
Operating Junction Temperature Range	T_J	- 50 to + 150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 50 to + 175	$^\circ\text{C}$

Note : (1) Thermal resistance from Junction to Ambient at 0.375" (9.5mm) Lead Lengths, P.C. Board Mounted.

RATING AND CHARACTERISTIC CURVES(BY2000)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

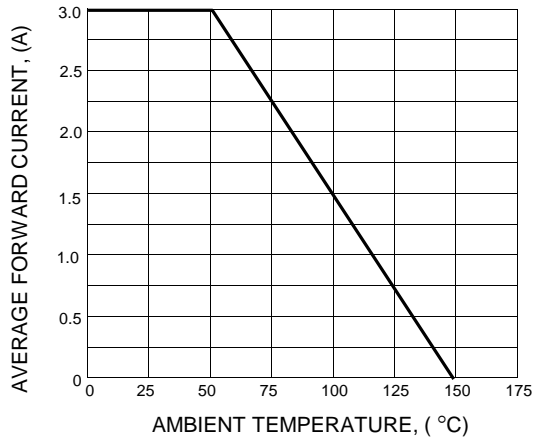


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

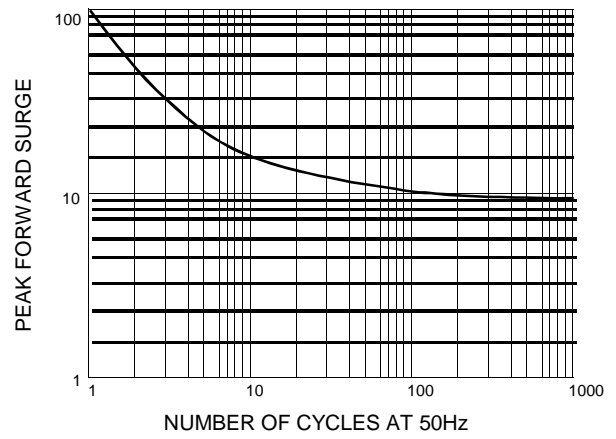


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

