

# 31DQ06

**PRV : 60 Volts**  
**I<sub>o</sub> : 3.0 Amperes**

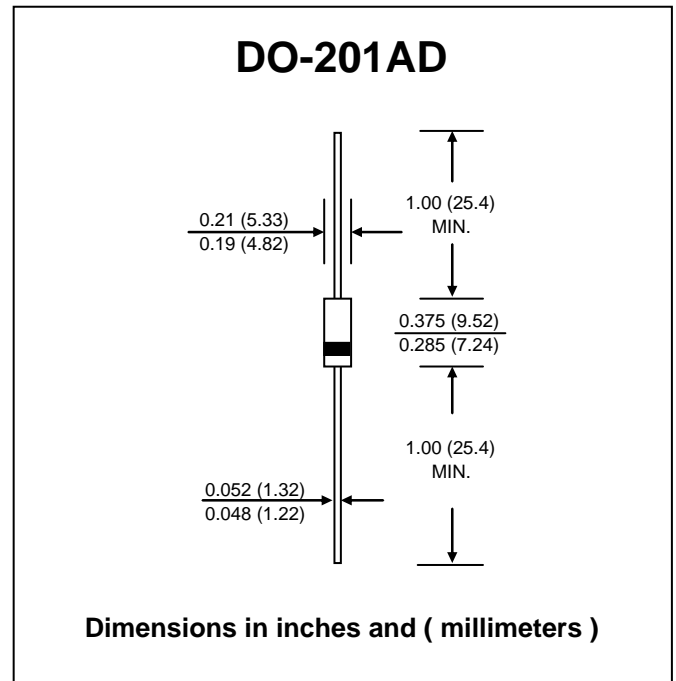
## FEATURES :

- \* Low forward voltage drop
- \* Low power loss
- \* High efficiency
- \* High surge current capability
- \* **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 : 1.1 grams

# SCHOTTKY BARRIER RECTIFIER DIODE



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specific.  
 Single phase, half wave, 60 Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.

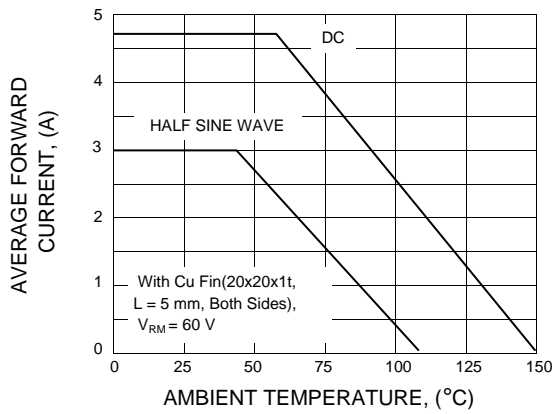
RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	60	V
Maximum Non-repetitive Peak Reverse Voltage	$V_{RSM}$	65	V
Maximum Average Rectified Output Current (Half Sine Wave Resistive Load )	$I_{F(AV)}$	1.6 <sup>(1)</sup>	A
$T_a = 25\text{ °C}$ $T_a = 43\text{ °C}$		3.0 <sup>(2)</sup>	
Maximum Non-repetitive Peak Forward Surge Current (Half Sine Wave, 1 cycle )	$I_{FSM}$	75	A
Maximum Forward Voltage at $I_F = 3.0\text{ A}$ , $T_j = 25\text{ °C}$	$V_F$	0.58	V
Maximum Reverse Current at $V_R = V_{RRM}$ , $T_j = 25\text{ °C}$	$I_R$	3.0	mA
Thermal Resistance (Junction to Ambient)	$\theta_{JA}$	80 <sup>(1)</sup>	°C/W
		34 <sup>(2)</sup>	
Junction Temperature Range	$T_J$	- 40 to + 150	°C
Storage Temperature Range	$T_{STG}$	- 40 to + 150	°C

### Notes :

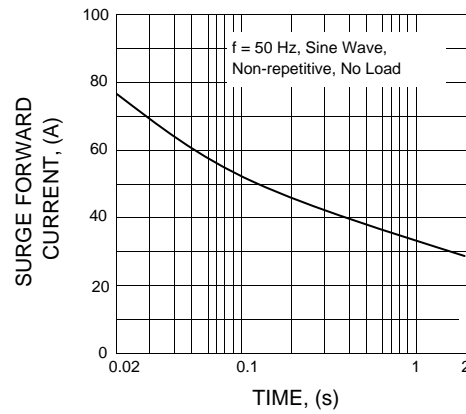
- (1) Without Fin or P.C. Board
- (2) With Fin 1 : 20x20x1t(mm) Copper plates, L = 5 mm, Both Sides

## RATING AND CHARACTERISTIC CURVES ( 31DQ06 )

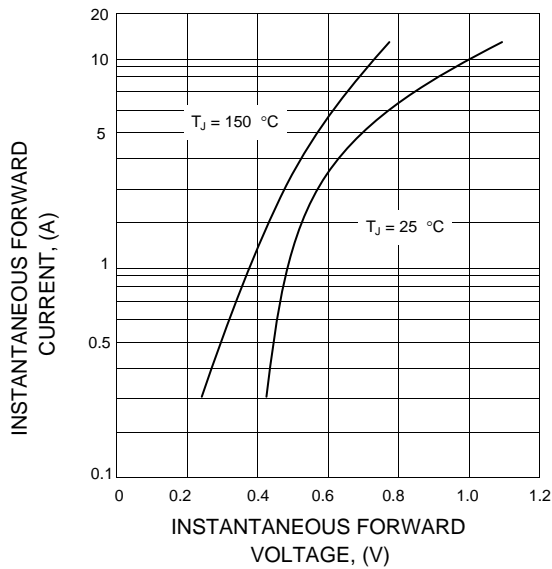
**FIG.1 - AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE**



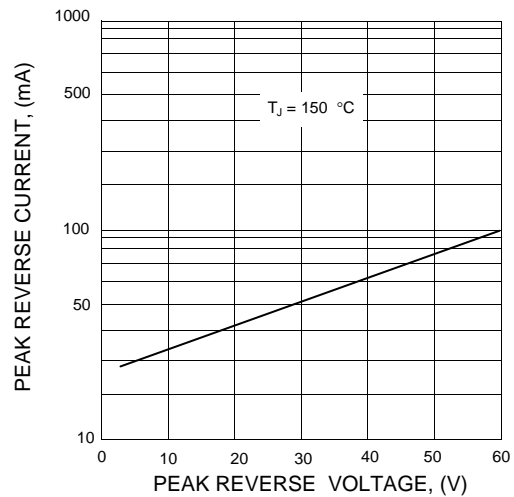
**FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG.3 - FORWARD CURRENT VS. FORWARD VOLTAGE**



**FIG.4 - PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE**



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