



**Glass Passivated Junction Rectifiers**

**Reverse Voltage 50 to 1000 Volts, Forward Current 3.0 Amperes**

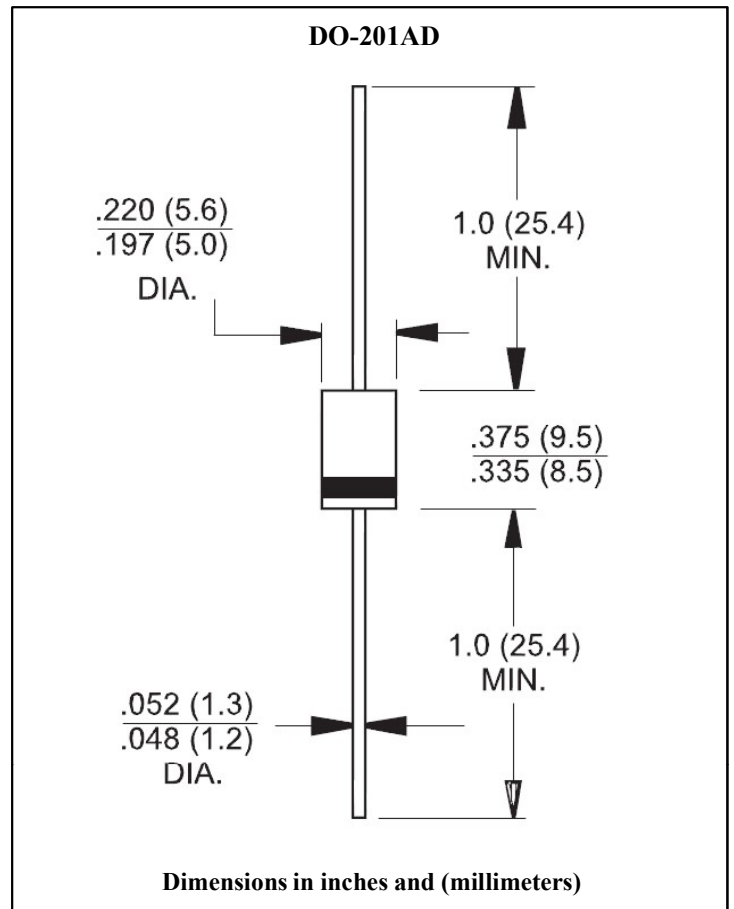
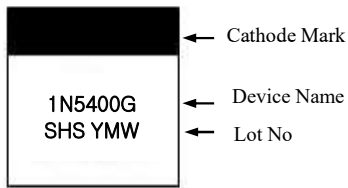
**Features**

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

**Mechanical Data**

- Case : Molded plastic DO-201AD
- Epoxy : UL 94V-O rate flame retardant
- Terminals : Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity : Color band denotes cathode end
- High temperature soldering guaranteed : 260°C/10 seconds /0.375",(9.5mm) lead lengths at 5lbs.,(2.3kg) tension
- Weight : 1.1grams

**Marking**



**Maximum Ratings & 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%

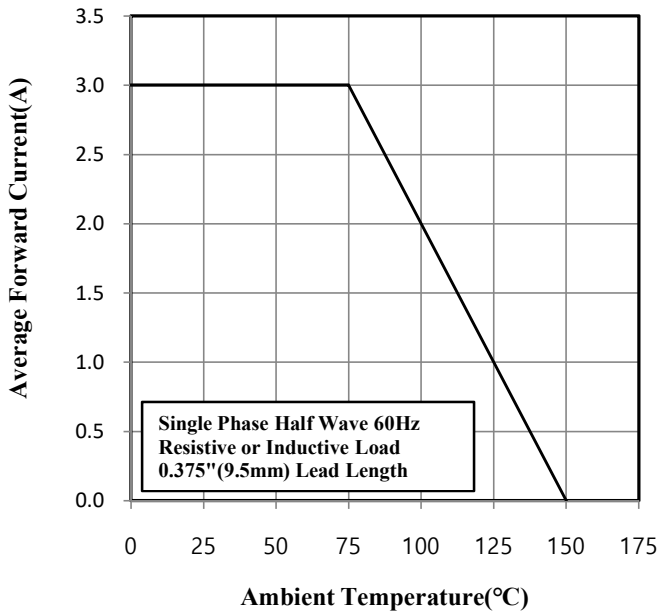
Parameter	Symbol	1N 5400G	1N 5401G	1N 5402G	1N 5404G	1N 5406G	1N 5407G	1N 5408G	Unit	Remark	
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V		
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V		
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V		
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Length	$I_F(AV)$	3.0								A	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	125								A	
Maximum Instantaneous Forward Voltage @ 3.0A	$V_F$	1.1								V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	5.0								uA	Ta=25°C
		100								uA	Ta=100°C
Typical Junction Capacitance	$C_J$	30								pF	Note 1
Operation Junction Temperature Range	$T_J$	-65 to +150								°C	
Storage Temperature Range	$T_{STG}$	-65 to +150								°C	

Note 1. Measured at 1MHz and Applied Reverse Voltage of 4.0Volts D.C.

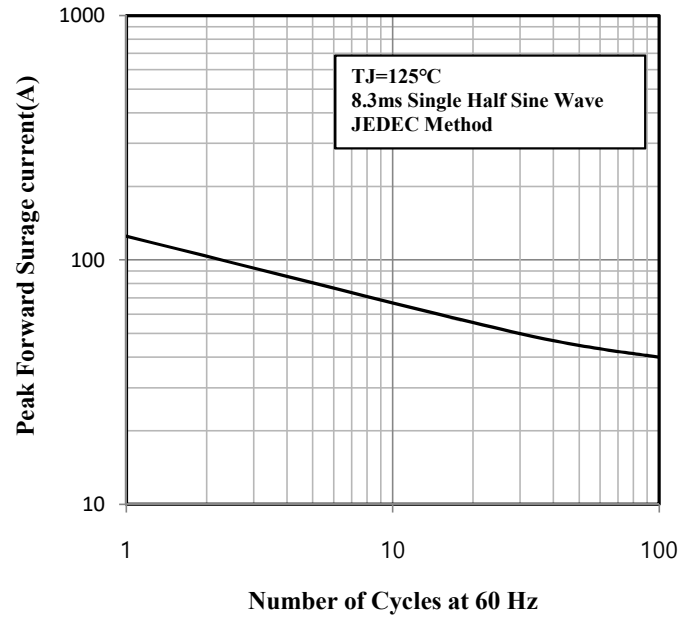


Ratings and Characteristics Curves ( $T_a=25^\circ\text{C}$  unless otherwise noted)

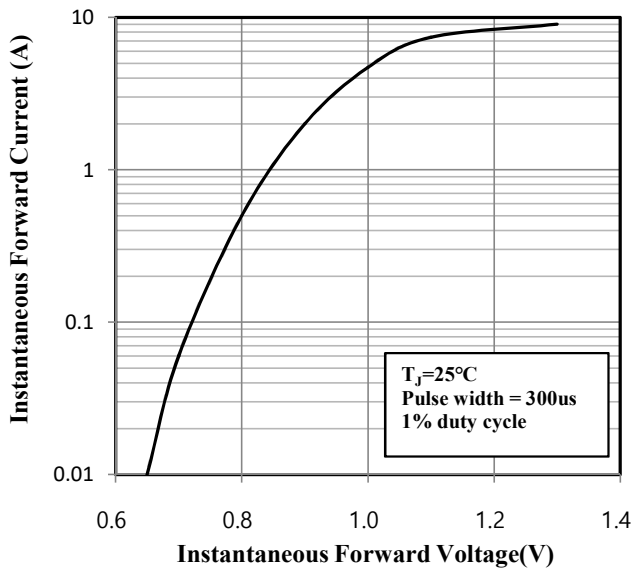
**Fig.1 Forward Current Derating Curve**



**Fig.2 Maximum Non-Repetitive Peak Forward Surge Current**



**Fig.3 Typical Instantaneous Forward Characteristics**



**Fig.4 Typical Junction Capacitance**

