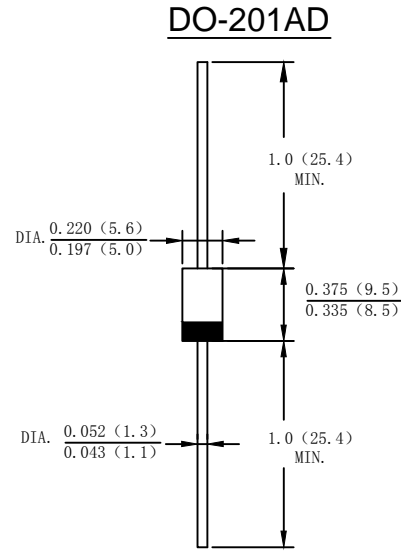


### Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Plastic material-UL flammability 94V-0

### Mechanical Data

- Case: Moeded plastic DO-201AD
- Terminals: Plated leads solderable per MIL-STD-202,Method 208 guaranteed
- Polarity: Color band dentes cathode end
- Mounting Position: Any
- Making: Type Number
- Lead Free: For Rohs/Lead Free Version



### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase,half wave,60Hz,resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	SF31G	SF32G	SF33G	SF34G	SF35G	SF36G	SF38G	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	150	200	300	400	600	V
Maximum RMS Voltage	$V_{RMS}$	35	70	104	140	210	280	420	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current.375"(9.5mm) lead length @ $T_A=50^{\circ}C$	$I_o$	3.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	125							A
Forward Voltage @ $I_F=3.0A$	$V_{FM}$	0.95			1.25		1.7		V
Peak Reverse Current @ $T_A=25^{\circ}C$	$I_R$	5.0							uA
At Rated DC Blocking Voltage @ $T_A=100^{\circ}C$		100							
Typical Junction Capacitance (Note 1)	$C_J$	80			60				pF
Typical Thermal Resistance Junction to Ambient(Note 2)	$R_{\theta JA}$	35							$^{\circ}C/W$
Maximum Reverse Recovery Time(Note 3)	$T_{rr}$	35							ns
Operating Temperature Range	$T_J$	-55 to +150							$^{\circ}C$
/Storage Temperature Range	$T_{STG}$	-55 to +150							$^{\circ}C$

Note:1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

2. Leads maintained at ambient temperature at a distance of 9.5mm from the case

3.Reverse Recovery Test Conditions:  $I_F=0.5A$ ,  $I_R=1A$ ,  $I_{rr}=0.25A$

FIG.1- MAXIMUM AVERAGE FORWARD CURRENT DERATING

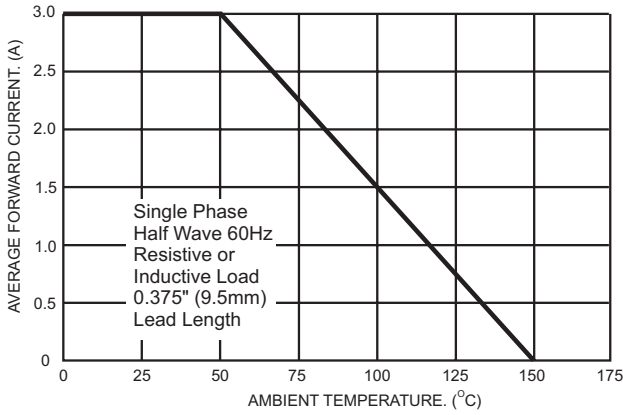


FIG.2- TYPICAL FORWARD CHARACTERISTICS

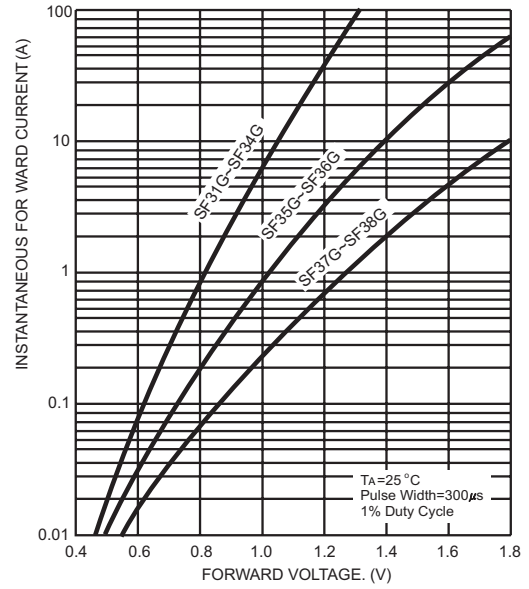


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

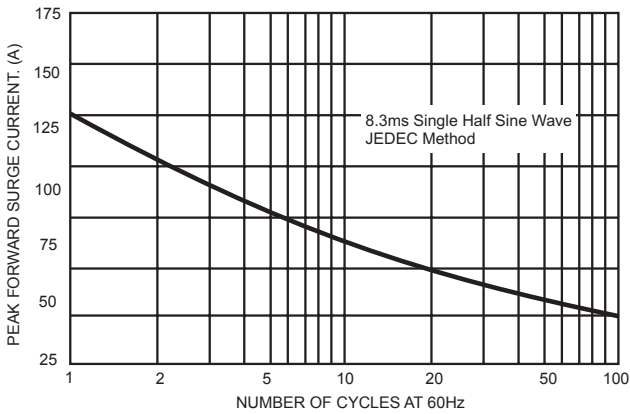


FIG.4- TYPICAL JUNCTION CAPACITANCE

