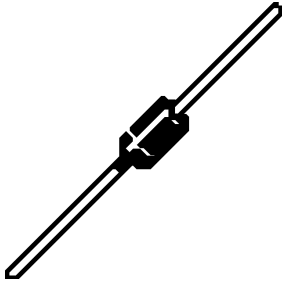


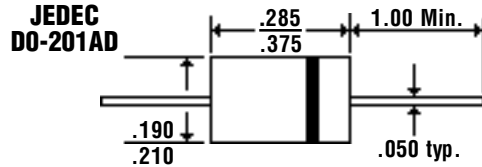
3.0 Amp MINIATURE PLASTIC SILICON RECTIFIERS

1N5400 . . . 5408 Series

Description



Mechanical Dimensions



Features

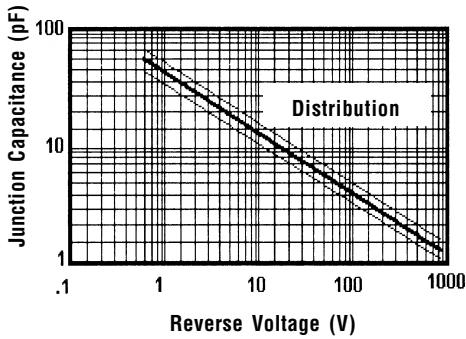
- **LOW COST**
- **LOW LEAKAGE**
- **DIFFUSED JUNCTION**
- **MEETS UL SPECIFICATION 94V-0**

1N5400 . . . 5408 Series										Units	
Maximum Ratings	1N5400	1N5401	1N5402	1N5403	1N5404	1N5405	1N5406	1N5407	1N5408		
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	200	300	400	500	600	800	1000	Volts	
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	210	280	350	420	560	700	Volts	
DC Blocking Voltage... V_{DC}	50	100	200	300	400	500	600	800	1000	Volts	
Average Forward Rectified Current... $I_{F(av)}$ $T_L = 105^\circ\text{C}$ (Note 3)	.....				3.0	.....				Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Current & Temp	.....				200	.....				Amps
Operating & Storage Temperature Range... T_J, T_{STRG}	.....				-65 to 175	.....				$^\circ\text{C}$
Electrical Characteristics											
Maximum Forward Voltage @ 3.0A... V_F	.....				1.2	.....				Volts
Maximum DC Reverse Current... I_R @ Rated DC Blocking Voltage	25 $^\circ\text{C}$	.....			10.0	.....				μAmps
	150 $^\circ\text{C}$	.....			500	.....				μAmps
Typical Junction Capacitance... C_J (Note 1)	<		50 >		<		25 >		pF
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)	.....				28	.....				$^\circ\text{C} / \text{W}$
Typical Thermal Resistance... $R_{\theta J-L}$	.....				5.0	.....				

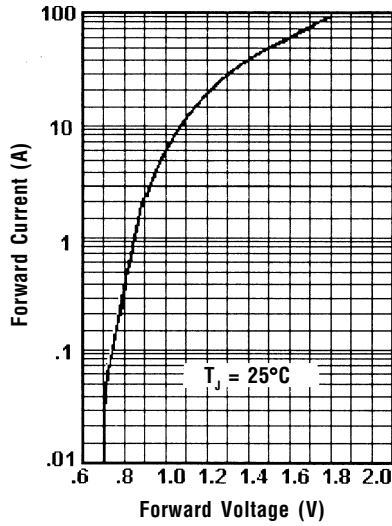
3.0 Amp MINIATURE PLASTIC SILICON RECTIFIERS

1N5400 . . . 5408 Series

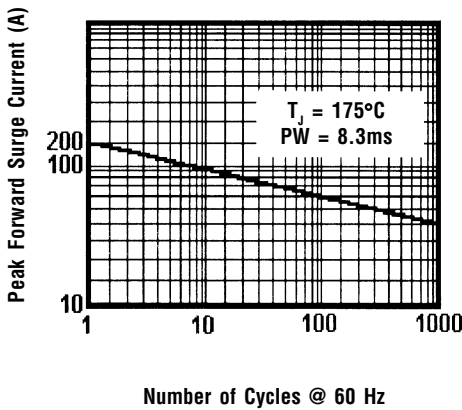
Typical Junction Capacitance



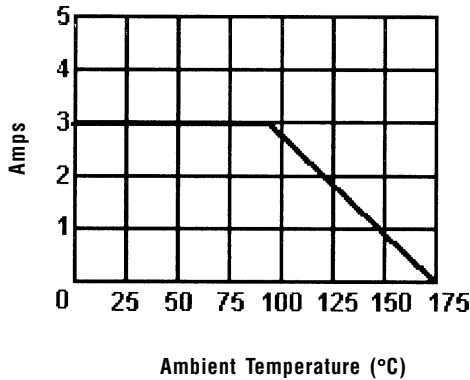
Instantaneous Forward Characteristics



Peak Forward Surge Current



Forward Current Derating Curve



Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 Hz Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

- NOTES:**
1. Measured @ 1 MHz and applied reverse voltage of 4.0V.
 2. Thermal Resistance Junction to Ambient, Jedec Method.
 3. .5", (12.5mm) lead lengths.