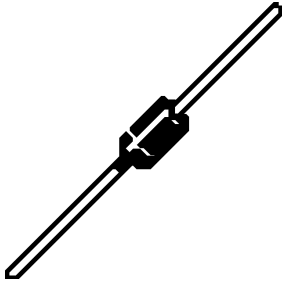


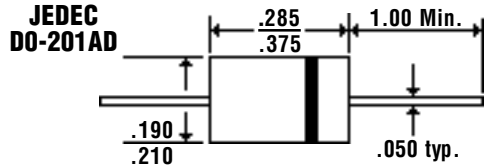
# 3.0 Amp MINIATURE PLASTIC SILICON RECTIFIERS

**1N5400 . . . . 5408 Series**

## Description



## Mechanical Dimensions



## Features

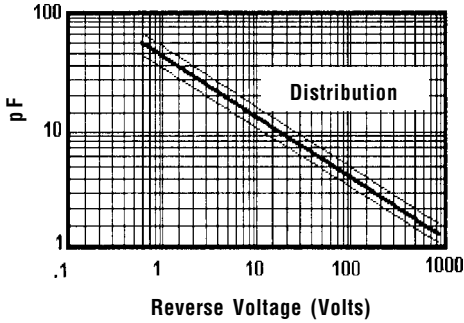
- LOW COST
- LOW LEAKAGE
- DIFFUSED JUNCTION
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.	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... $I_{F(av)}$ $T_A = 55^\circ\text{C}$ (Note 3)	.....				3.0	.....					Amps
Non-Repetitive Peak Forward Surge Current... $I_{FSM}$ @ Rated Current & Temp	.....				200	.....					Amps
Forward Voltage @ 3.0A... $V_f$	.....				1.0	.....					Volts
DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage	.....				1.0	.....					$\mu\text{Amps}$
	.....				100	.....					$\mu\text{Amps}$
Typical Junction Capacitance... $C_j$ (Note 1)	< .....		50	..... >		< .....		25	..... >		pF
Typical Thermal Resistance (Note 2)	.....				28	.....					$^\circ\text{C} / \text{W}$
Operating & Storage Temperature Range... $T_J, T_{STRG}$	.....				-65 to 175	.....					$^\circ\text{C}$

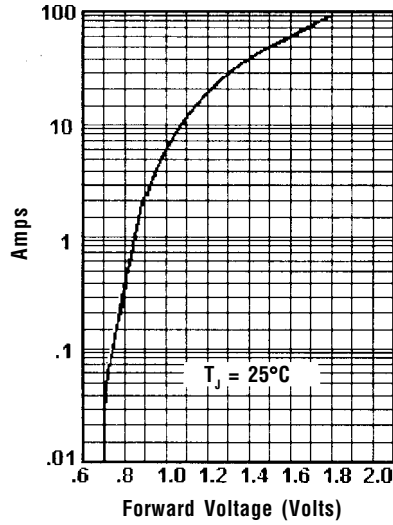
# 3.0 Amp MINIATURE PLASTIC SILICON RECTIFIERS

**1N5400 . . . 5408 Series**

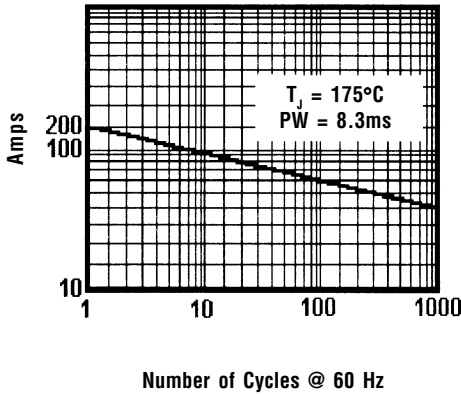
**Typical Junction Capacitance**



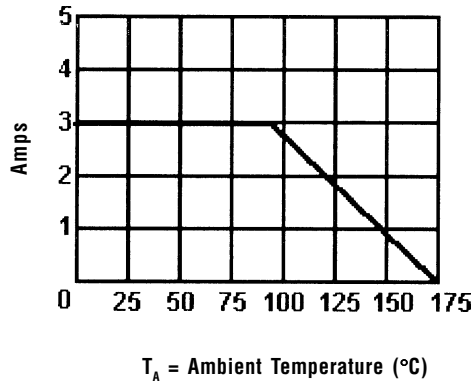
**Instantaneous Forward Characteristics**



**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. When Mounted to heat sink, from body.