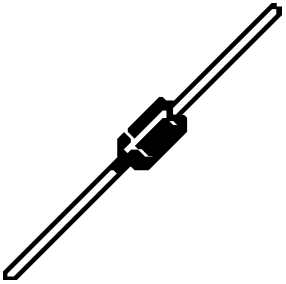
Data Sheet

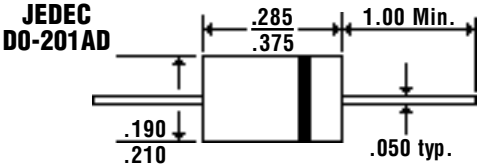
3.0 Amp MINIATURE PLASTIC SILICON RECTIFIERS

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°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 @ 25°C	..... 1.0									µAmps
@ Rated DC Blocking Voltage @ 100°C	..... 100									µAmps
Typical Junction Capacitance...C_J *(Note 1)*	< ..... 50 ..... >					< ..... 25 ..... >				pF
Typical Thermal Resistance *(Note 2)*	..... 28									°C / W
Operating & Storage Temperature Range...T_J, T_{STRG}	..... -65 to 175									°C

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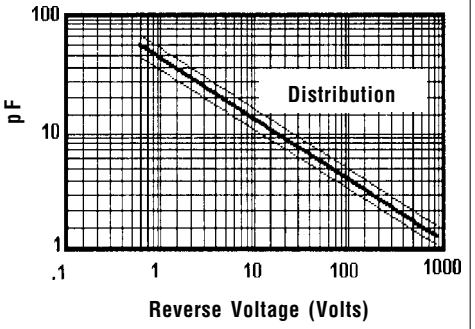
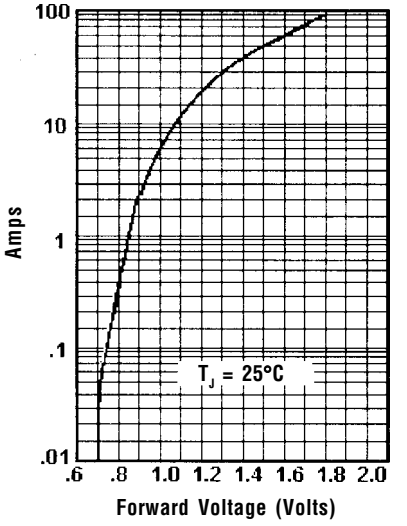
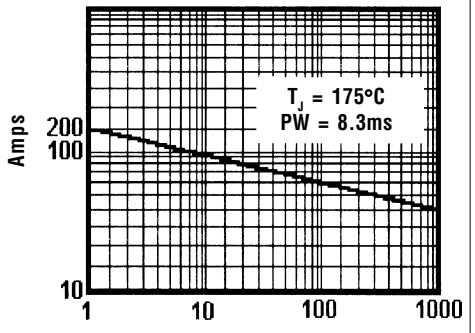
Typical Junction Capacitance



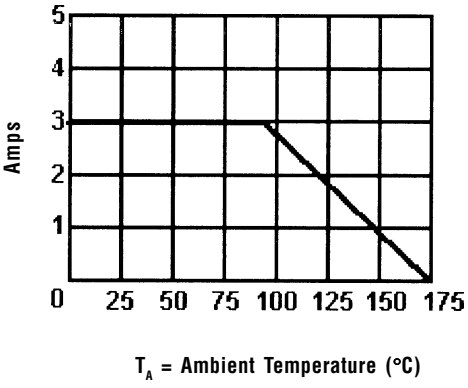
Instantaneous Forward Characteristics



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.