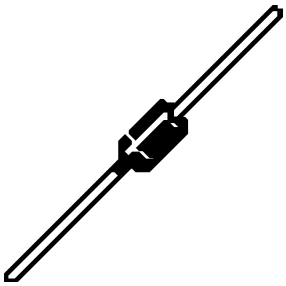
Data Sheet

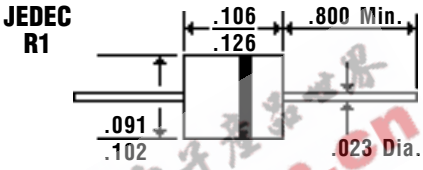
1.0 Amp MINIATURE PLASTIC SILICON RECTIFIERS

F1A1 . . . F1A7 Series

Description



Mechanical Dimensions



Features

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

Electrical Characteristics @ 25°C.	F1A1 . . . F1A7 Series							Units
Maximum Ratings	**F1A1**	**F1A2**	**F1A3**	**F1A4**	**F1A5**	**F1A6**	**F1A7**	
Peak Repetitive Reverse Voltage...V_{RRM}	50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage...$V_{R(rms)}$	35	70	140	280	420	560	700	Volts
DC Blocking Voltage...V_{DC}	50	100	200	400	600	800	1000	Volts
Average Forward Rectified Current...$I_{F(av)}$ T_A = 75°C *(Note 3)*	..... 1.0							Amps
Non-Repetitive Peak Forward Surge Current...I_{FSM} @ Rated Current & Temp	..... 30							Amps
Forward Voltage @ 1.0A...V_F	..... 1.1							Volts
Working Peak Reverse Current...I_{PR} @ Full Cycle .375" Lead Length, T_J = 75°C	..... 30							µAmps
DC Reverse Current @ 25°C...I_R	..... 5.0							µAmps
@ Rated DC Blocking Voltage @ 100°C	..... 50							µAmps
Typical Junction Capacitance...C_J *(Note 1)*	..... 15							pF
Typical Thermal Resistance...$R_{\theta JC}$ *(Note 2)*	..... 25							°C / W
Operating & Storage Temperature Range...T_J, T_{STRG}	..... -50 to 175							°C

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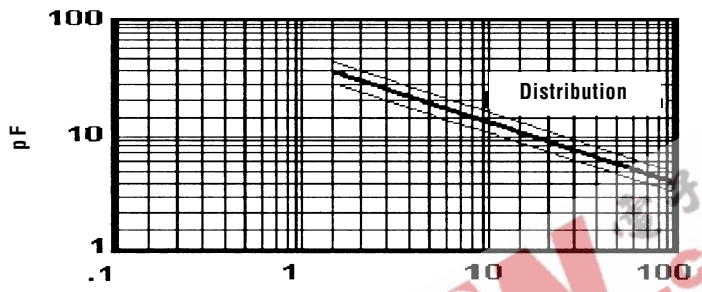
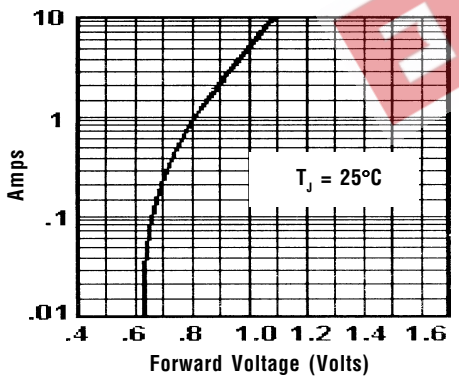
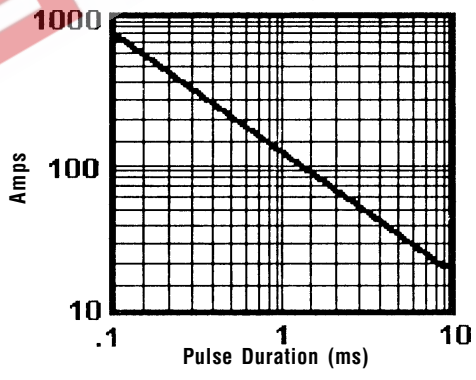
Typical Junction Capacitance



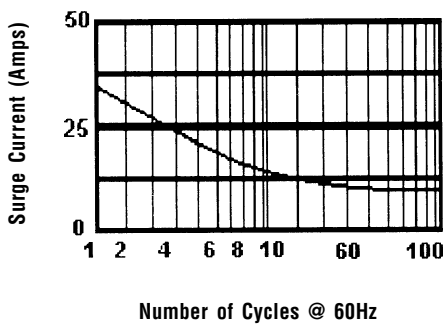
Typical Forward Characteristics



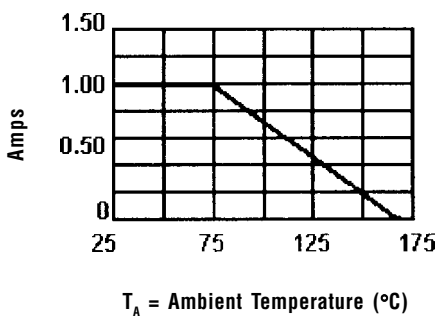
Peak Forward Surge Current



Maximim Non-Repetitive 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.