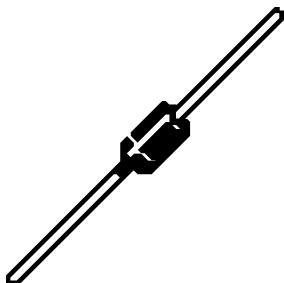


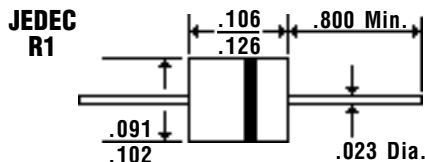
1.0 Amp MINIATURE PLASTIC SILICON RECTIFIERS

F1A1 ... F1A7 Series

Description



Mechanical Dimensions



Features

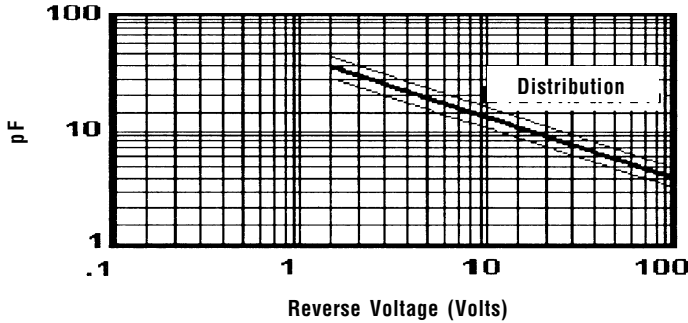
- **LOW COST**
- **LOW LEAKAGE**
- **DIFFUSED JUNCTION**
- **MEETS UL SPECIFICATION 94V-0**

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... $I_{F(av)}$ $T_A = 75^\circ\text{C}$ (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, $T_J = 75^\circ\text{C}$	.....			30	.....			μAmps
DC Reverse Current @ 25°C... I_R @ Rated DC Blocking Voltage @ 100°C	.....			5.0	.....			μAmps
Typical Junction Capacitance... C_J (Note 1)	.....			15	.....			pF
Typical Thermal Resistance... $R_{\theta JC}$ (Note 2)	.....			25	.....			$^\circ\text{C} / \text{W}$
Operating & Storage Temperature Range... T_J, T_{STRG}	.....			-50 to 175	.....			$^\circ\text{C}$

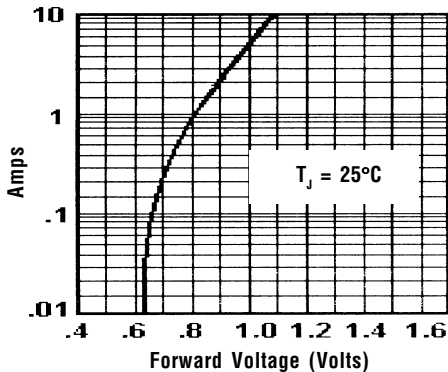
1.0 Amp MINIATURE PLASTIC SILICON RECTIFIERS

F1A1 ... F1A7 Series

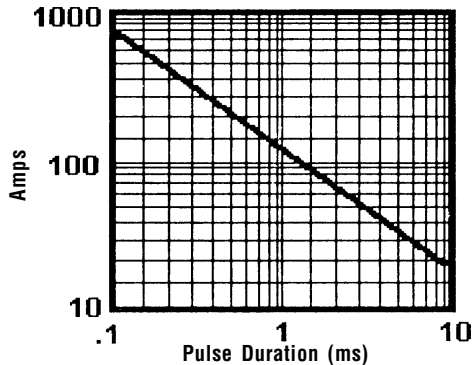
Typical Junction Capacitance



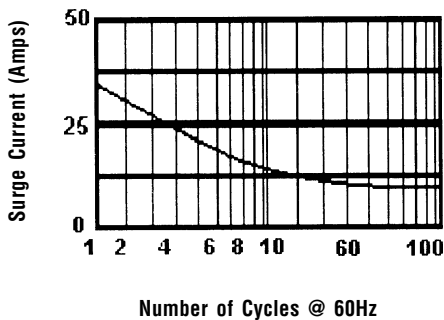
Typical Forward Characteristics



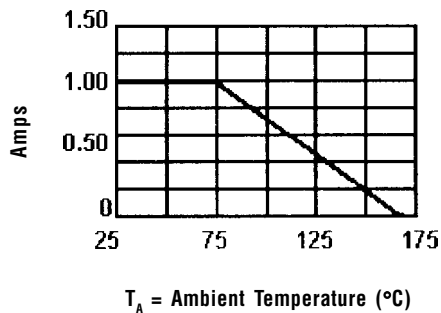
Peak Forward Surge Current



Maximum 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.