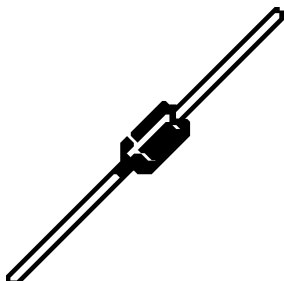


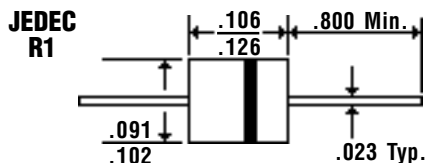
1.0 Amp MINIATURE PLASTIC SILICON RECTIFIERS

F1A1 ... F1A7 Series

Description



Mechanical Dimensions



Features

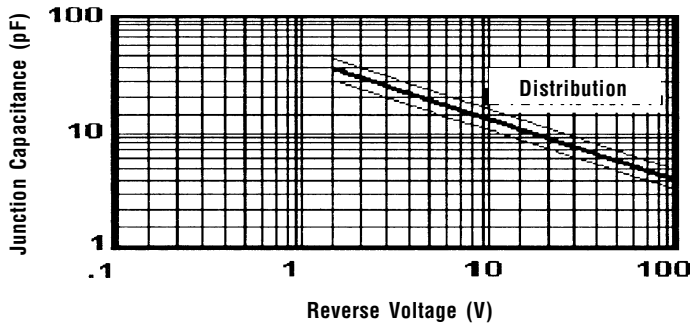
- LOW COST
- LOW LEAKAGE
- DIFFUSED JUNCTION
- MEETS UL SPECIFICATION 94V-0

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... $I_{F(av)}$ $T_A = 25^\circ\text{C}$ (Note 3)	.....	.....	.....	1.0	.....	.....	.....	Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Current & Temp	.....	.....	.....	30	.....	.....	.....	Amps
Operating & Storage Temperature Range... T_J, T_{STRG}	.....	.....	.....	-50 to 175	.....	.....	.....	$^\circ\text{C}$
Electrical Characteristics								
Maximum Forward Voltage @ 1.0A... V_F	.....	.....	.....	1.1	.....	.....	.....	Volts
Maximum Full Load Reverse Current... $I_{R(AV)}$ @ Full Cycle .375" Lead Length, $T_L = 75^\circ\text{C}$	.....	.....	.....	30	.....	.....	.....	μAmps
Maximum DC Reverse Current... I_R 25°C}	.....	.....	.....	5.0	.....	.....	.....	μAmps
100°C}	.....	.....	.....	50	.....	.....	.....	μAmps
Typical Junction Capacitance... C_J (Note 1)	.....	.....	.....	15	.....	.....	.....	pF
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)	.....	.....	.....	25	.....	.....	.....	$^\circ\text{C} / \text{W}$

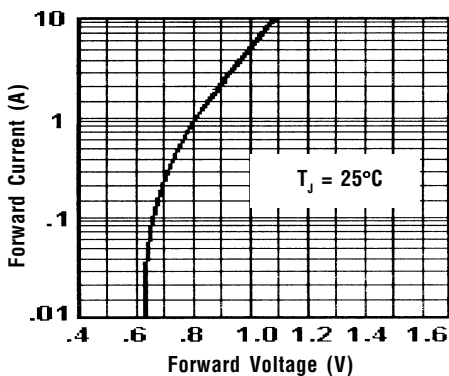
1.0 Amp MINIATURE PLASTIC SILICON RECTIFIERS

F1A1 ... F1A7 Series

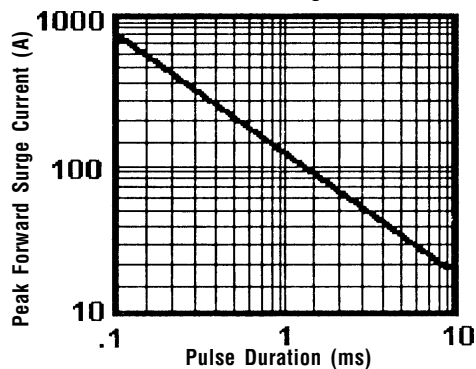
Typical Junction Capacitance



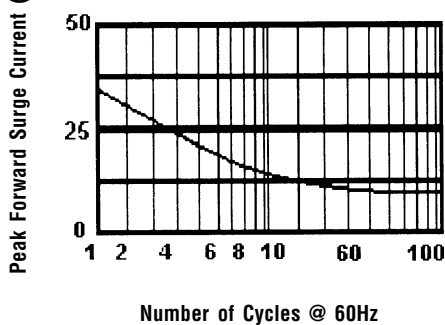
Typical Forward Characteristics



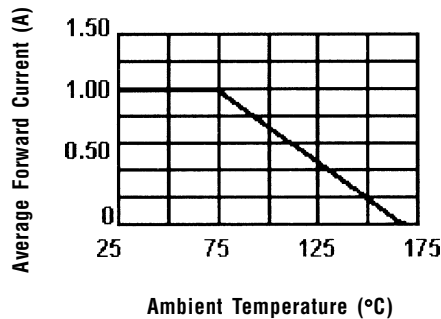
Peak Forward Surge Current



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. .375", (9.5mm) lead lengths.