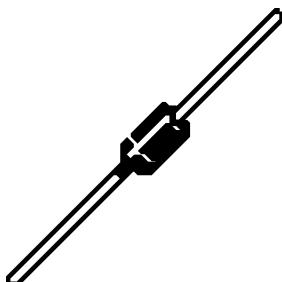
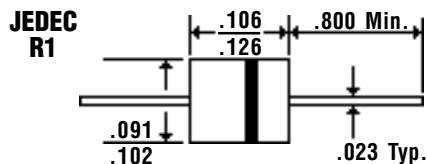
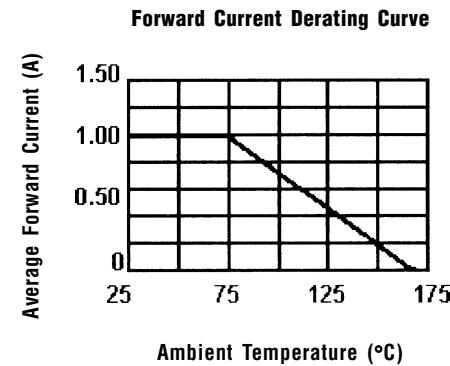
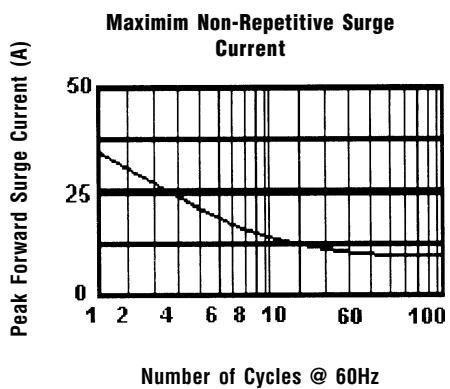
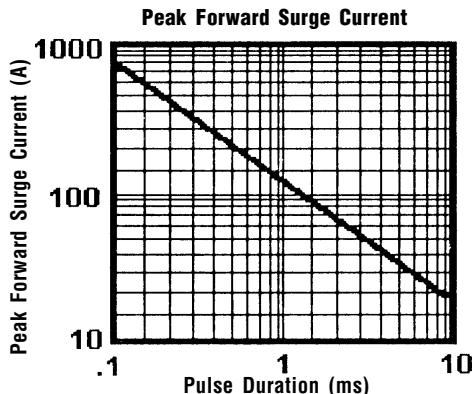
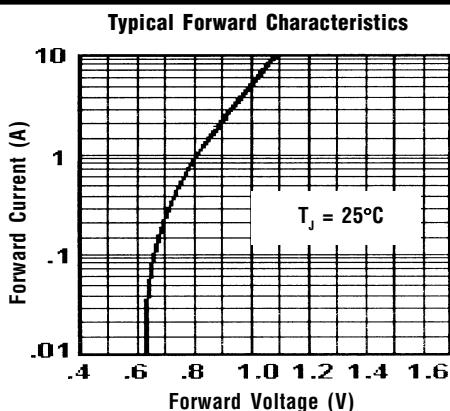
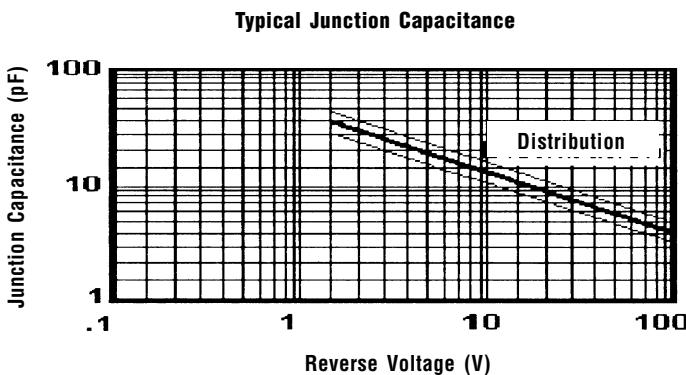


F1A1 . . . F1A7 Series
Description

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
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	420	560	700
DC Blocking Voltage... V_{DC}	50	100	200	400	600	800	1000
Average Forward Rectified Current... $I_{F(av)}$ $T_A = 25^\circ\text{C}$ (<i>Note 3</i>)	.....	.....	.....	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	.....	.....	.....	°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 @ Rated DC Blocking Voltage	25°C	.....	.....	5.0	.....	.....	µAmps
Maximum DC Reverse Current... I_R @ 100°C	100°C	.....	.....	50	.....	.....	µAmps
Typical Junction Capacitance... C_J (<i>Note 1</i>)	.....	.....	.....	15	.....	.....	pF
Typical Thermal Resistance... R_{QJA} (<i>Note 2</i>)	.....	.....	.....	25	.....	.....	°C / W



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.