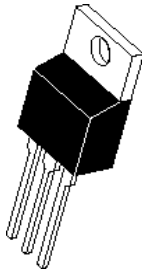


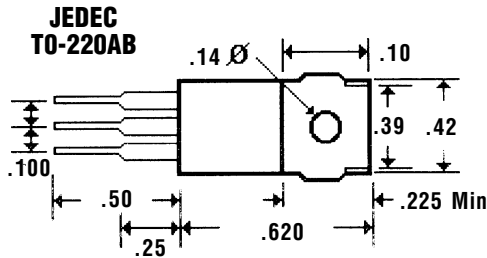
**16 Amp PLASTIC SILICON RECTIFIERS**

**FR1601 ... 1606 Series**

**Description**



**Mechanical Dimensions**



**Features**

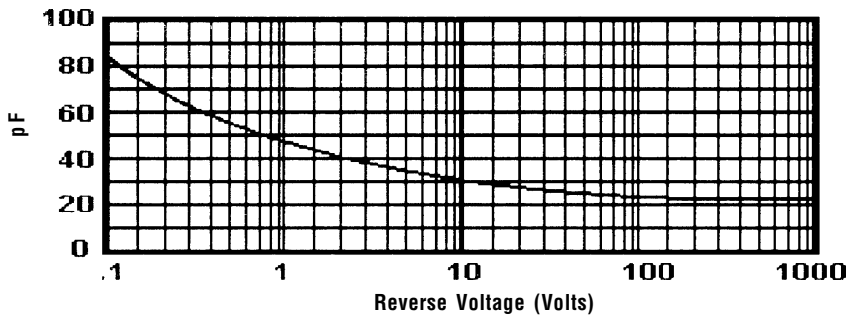
- LOW COST
- LOW LEAKAGE
- DIFFUSED JUNCTION
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.	FR1601 ... 1606 Series						Units
Maximum Ratings	FR1601	FR1602	FR1603	FR1604	FR1605	FR1606	
Peak Repetitive Reverse Voltage... $V_{RRM}$	50	100	200	400	600	800	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	420	560	Volts
DC Blocking Voltage... $V_{DC}$	50	100	200	400	600	800	Volts
Average Forward Rectified Current... $I_{F(av)}$ $T_A = 55^\circ\text{C}$ (Note 3)	16						Amps
Non-Repetitive Peak Forward Surge Current... $I_{FSM}$ @ Rated Current & Temp	300						Amps
Forward Voltage @ 8.0A... $V_f$	1.1						Volts
DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage	10						$\mu\text{Amps}$
	100						$\mu\text{Amps}$
Typical Junction Capacitance... $C_j$ (Note 1)	55						pF
Typical Thermal Resistance... $R_{\theta JC}$ (Note 2)	3.0						$^\circ\text{C} / \text{W}$
Operating & Storage Temperature Range... $T_J, T_{STRG}$	-65 to 175						$^\circ\text{C}$

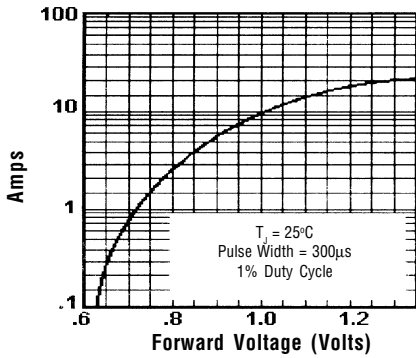
**16 Amp PLASTIC SILICON RECTIFIERS**

**FR1601 . . . 1606 Series**

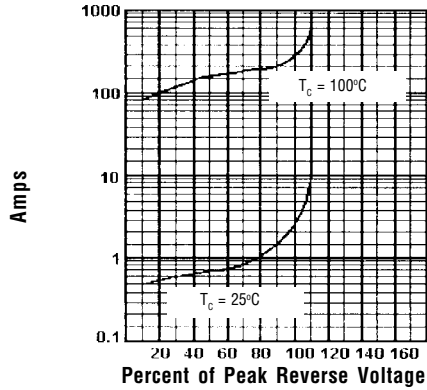
**Typical Junction Capacitance**



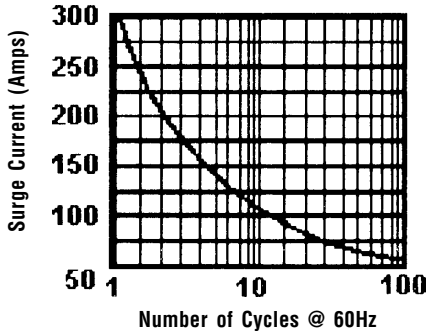
**Typical Forward Characteristics**



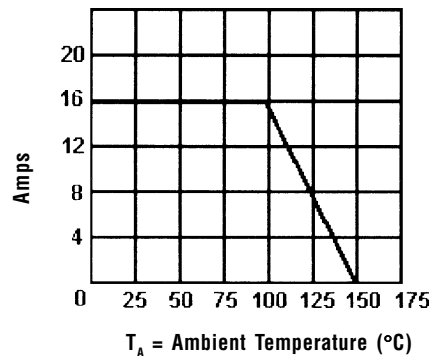
**Typical Reverse Characteristics**



**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.