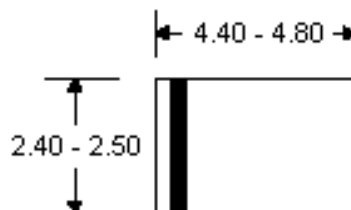


1.0A SURFACE MOUNT GLASS PASSIVATED RECTIFIER

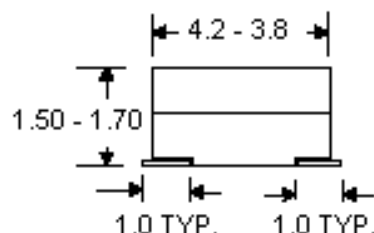
Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Surge Overload Rating to 30A Peak
- Low Power Loss
- Built-in Strain Relief
- Plastic Case Material has UL Flammability Classification Rating 94V-0



Mechanical Data

- Case: Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)



Maximum Ratings and Electrical Characteristics @T_a = 25°C unless otherwise specified

Characteristic	Symbol	FM4001	FM4002	FM4003	FM4004	FM4005	FM4006	FM4007	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RRM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{RRM(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _a = 100°C	I _C	1.0							A
Non Repetitive Peak Forward Surge Current 8.3ms Single half sine wave superimposed on rated load (JEDEC Method)	I _{FSM}	30							A
Forward Voltage @I _F = 1.0A	V _{FM}	1.10							V
Peak Reverse Current @T _a = 25°C At Rated DC Blocking Voltage @T _a = 125°C	I _{RR}	5.0 200							μA
Reverse Recovery Time (Note 1)	t _r	2.5							μS
Typical Junction Capacitance (Note 2)	C _j	15							pF
Typical Thermal Resistance (Note 3)	R _{θJA}	30							K/W
Operating and Storage Temperature Range	T _J T _{stg}	-55 TO +150							°C

- Note: 1. Measured with I_F = 0.5A, I_C = 1.0A, I_R = 0.25A,
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
 3. Mounted on P.C. Board with 8.0mm² land area.

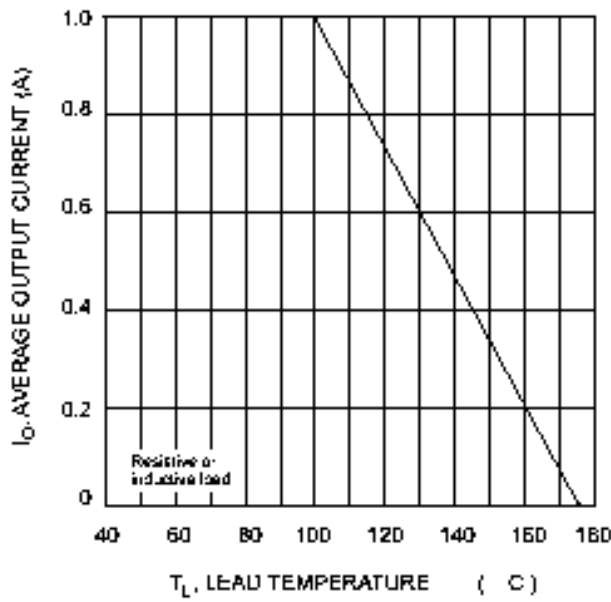


Fig. 1 Forward Current Derating Curve

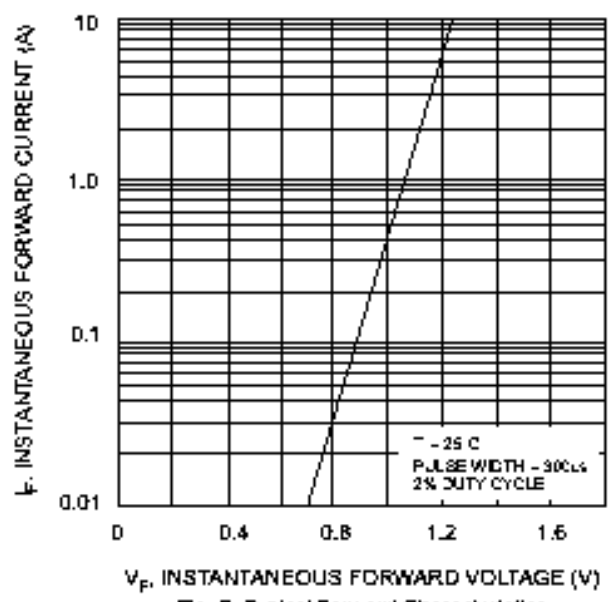


Fig. 2 Typical Forward Characteristics

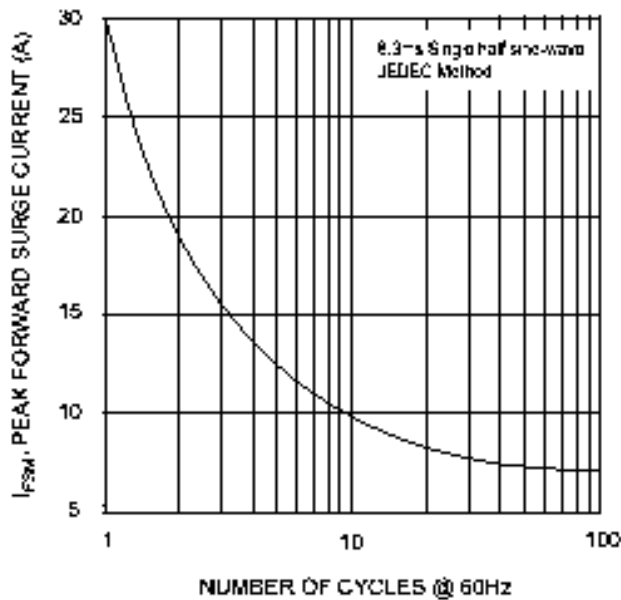


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

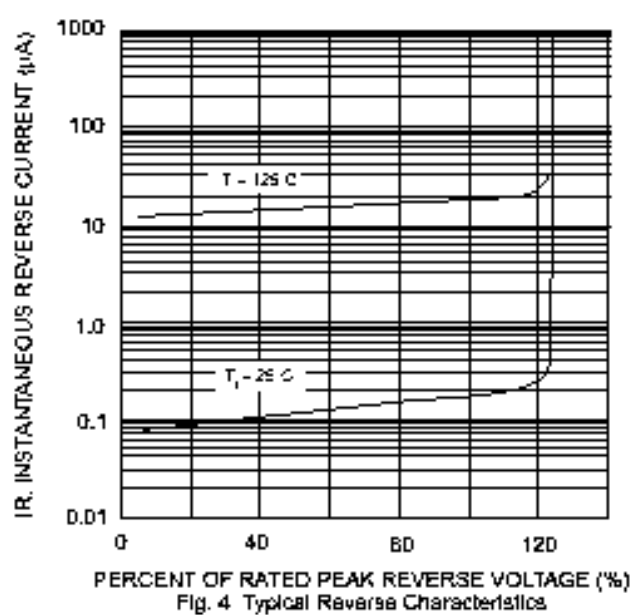


Fig. 4 Typical Reverse Characteristics