



# PX6A01 Thru PX6A07

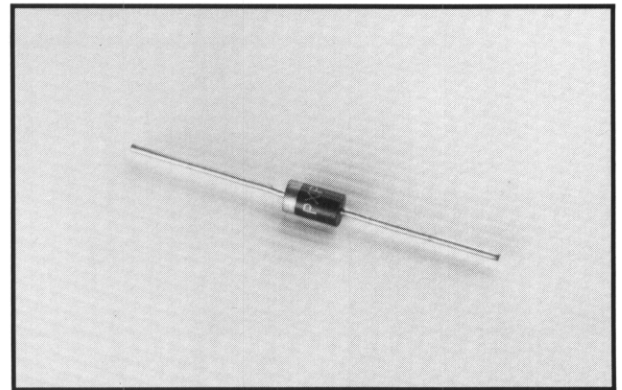
## 6 AMP PLASTIC SILICON RECTIFIER

### FEATURES

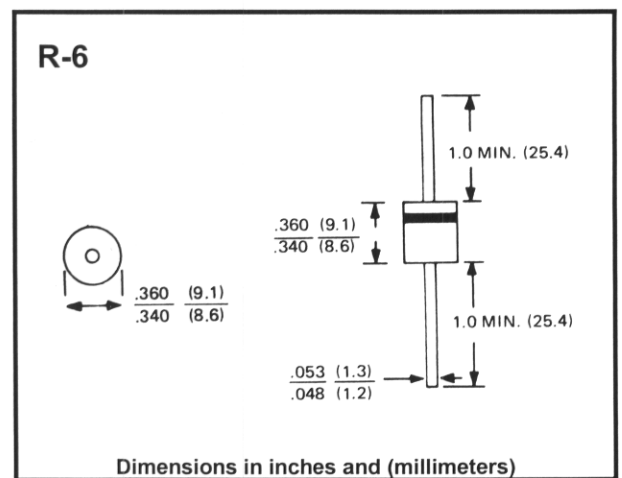
- Rating to 1000V PRV
- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with freon, alcohol, chloroethene and similar solvents
- UL recognized 94V-O plastic material

### Mechanical Data

- Case: Molded Plastic
- Terminals: Axial leads, solderable per MIL-STD-202, Method 208
- Polarity: Color band denotes cathode
- Weight: 0.07 ounce, 2.1 grams



### Outline Drawing



### Maximum Ratings & Characteristics

- Ratings at 25° C ambient temperature unless otherwise specified
- Single phase, half wave, 60Hz, resistive or inductive load
- For capacitive load, derate current by 20%

		PX6A01	PX6A02	PX6A03	PX6A04	PX6A05	PX6A06	PX6A07	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>R</sub> RM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>R</sub> MS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>D</sub> C	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375" (9.5mm) Lead Lengths @ T <sub>A</sub> = 60° C	I (AV)	6.0							A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load (JEDEC Method) @ T <sub>J</sub> = 150° C	I <sub>F</sub> SM	400							A
Maximum Forward Voltage At 6.0A DC	V <sub>F</sub>	1.0							V
Maximum DC Reverse Current At Rated DC Blocking Voltage @ T <sub>A</sub> = 25° C	I <sub>R</sub>	10							μA
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	140				70			pF
Typical Thermal Resistance (Note 2)	R <sub>th</sub> JA	10							°C/W
Operating Temperature Range	T <sub>J</sub>	-65 to +175							°C
Storage Temperature Range	T <sub>STG</sub>	-65 to +175							°C

- Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC  
2. Thermal resistance Junction to Lead at 0.5" (12.7mm) lead length