



**General Purpose Plastic Rectifiers**  
**Reverse Voltage 50 to 1000 Volts Forward Current 6.0 Amperes**

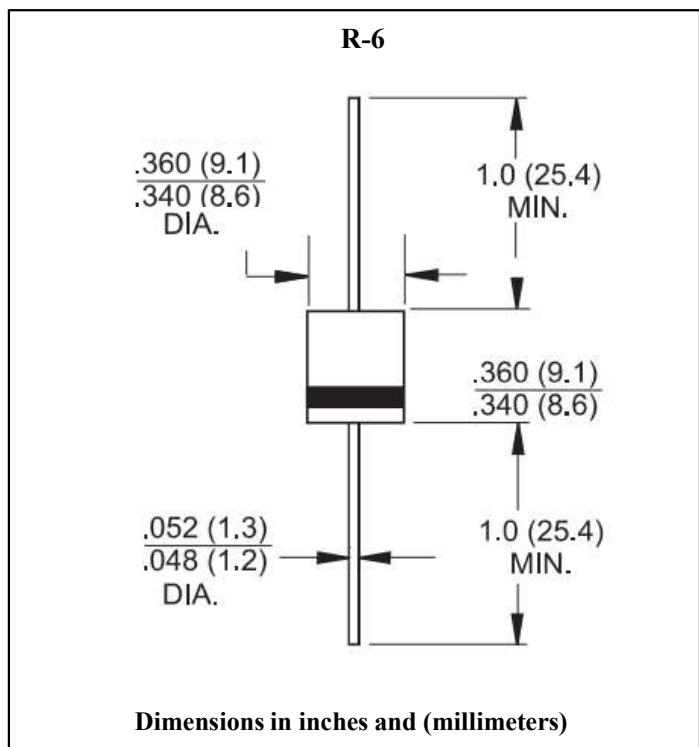
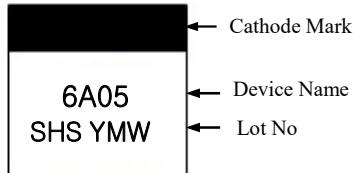
**Features**

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

**Mechanical Data**

- Case : Molded plastic R-6
- Epoxy : UL 94V-0 rate flame retardant
- Lead : Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity : Color band denotes cathode end
- High temperature soldering guaranteed : 260°C/10 seconds /0.375",(9.5mm) lead lengths at 5lbs.,(2.3kg) tension
- Weight : 2.1 grams

**Marking**



**Maximum Ratings & Electrical Characteristics**

Ratings at 25°C ambient temperature unless otherwise specified

Single phase half wave 60 HZ, resistive or inductive load

For capacitive load, derate current by 20%

Parameter	Symbol	6A05	6A10	6A20	6A40	6A60	6A80	6A100	Unit	Remark
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Length	I <sub>F(AV)</sub>	6.0							A	
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	400							A	
Maximum Instantaneous Forward Voltage @ 6.0A	V <sub>F</sub>	1.0							V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	10							uA	T <sub>a</sub> =25°C
		400							uA	T <sub>a</sub> =100°C
Maximum Full Load Reverse Current, Full Cycle Average 0.375"(9.5mm) Lead Length	I <sub>R(AV)</sub>	50							uA	T <sub>a</sub> =75°C
Typical Junction Capacitance	C <sub>J</sub>	100							pF	Note 1
Typical Thermal Resistance	R <sub>th(j-a)</sub>	10							°C /W	Note 2
Operation Junction Temperature Range	T <sub>J</sub>	-55 to +125							°C	
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C	

Note 1. Measured at 1MHz and Applied Reverse Voltage of 4.0Volts D.C.

Note 2. Thermal Resistance from Junction to Ambient .375"(9.5mm) Lead Length



Ratings and Characteristics Curves (Ta=25°C unless otherwise noted)

Fig.1 Forward Current Derating Curve

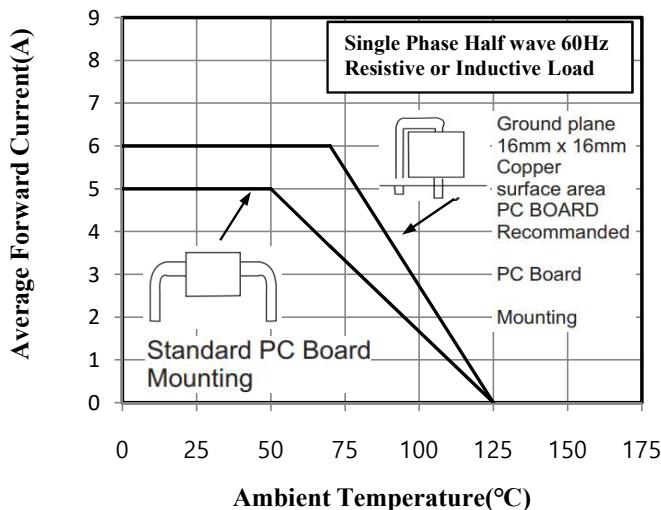


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

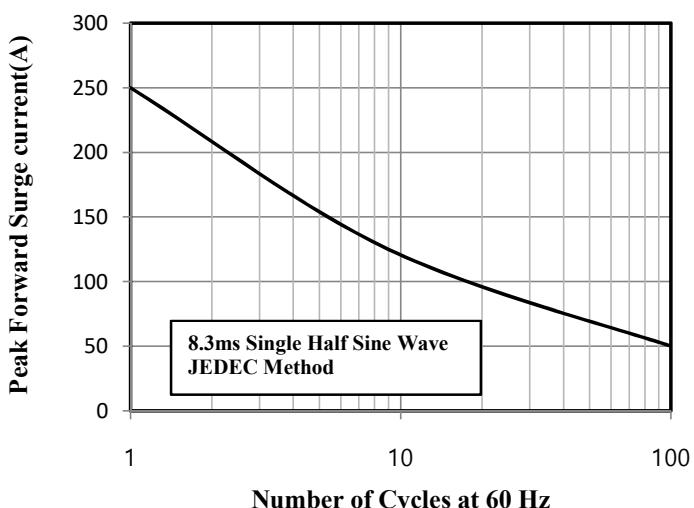


Fig.3 Typical Instantaneous Forward Characteristics

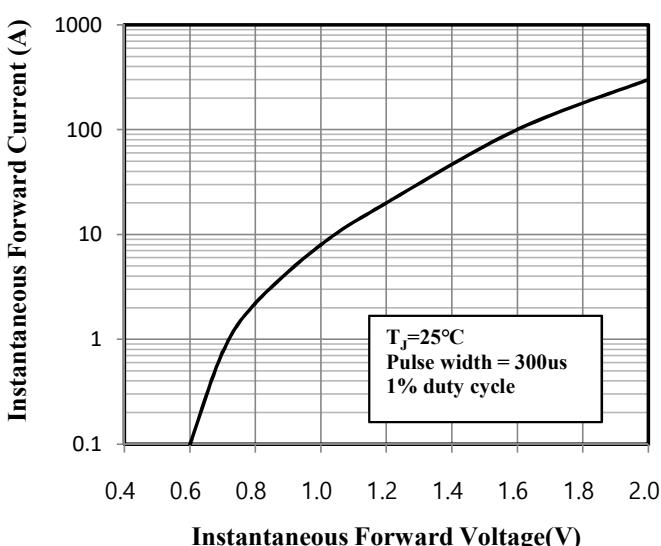


Fig.4 Typical Junction Capacitance

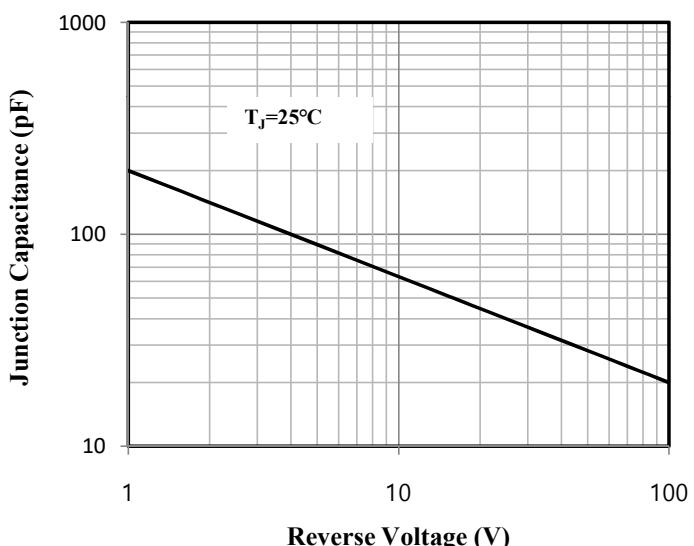


Fig.5 Typical Reverse Characteristics

