

General Purpose Plastic Rectifiers
Reverse Voltage 50 to 1000 Volts Forward Current 1.0 Ampere

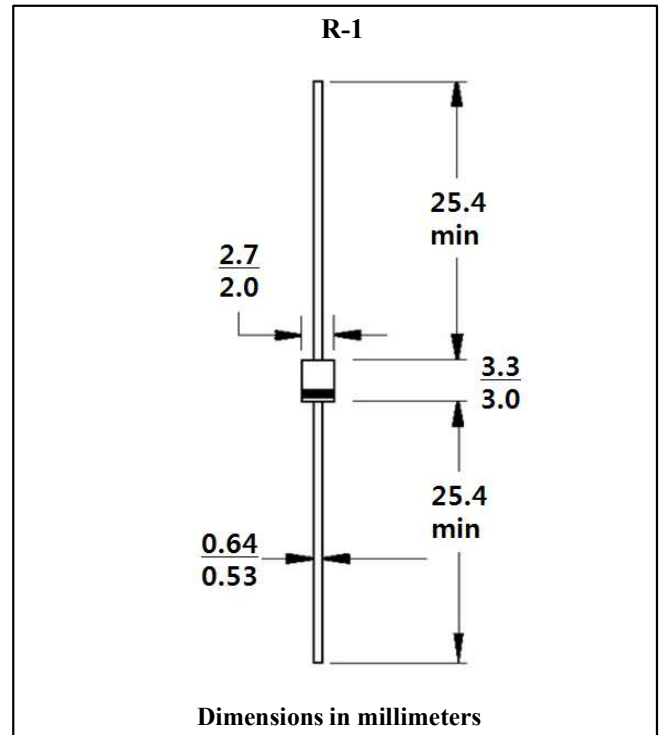
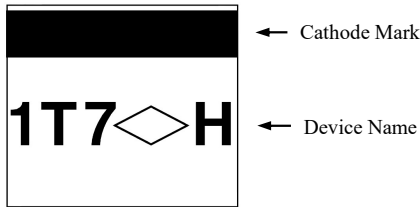
Features

- Low forward voltage drop
- Glass passivated chip junction
- High current capability
- High reliability
- High surge current capability
- 3mm miniature body

Mechanical Data

- Case : Molded plastic
- 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 5 lbs.,(2.3kg) tension
- Weight : 0.2 gram

Marking



Maximum Ratings & Electrical Characteristics (If not specified Ta =25°C)

Parameter	Symbol	1T1	1T2	1T3	1T4	1T5	1T6	1T7	Unit	Remark
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current 0.375"(9.5mm) Lead Length	$I_{(AV)}$	1.0							A	
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	30							A	
Maximum Instantaneous Forward Voltage @ 1.0A	V_F	1.0							V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	5.0							uA	Ta=25°C
		100								Ta=125°C
Typical Junction Capacitance	C_J	10							pF	Note 1
Typical Thermal Resistance	Rth(j-a)	100							°C /W	Note 2
Operation Junction Temperature Range	T_J	-55 to +150							°C	
Storage Temperature Range	T_{STG}	-55 to +150							°C	

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

Note 2. Thermal resistance junction to ambient and from junction to lead at 0.375"(9.5mm) lead lengths P.C.B mounted



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

Fig.1 Forward Current Derating Curve

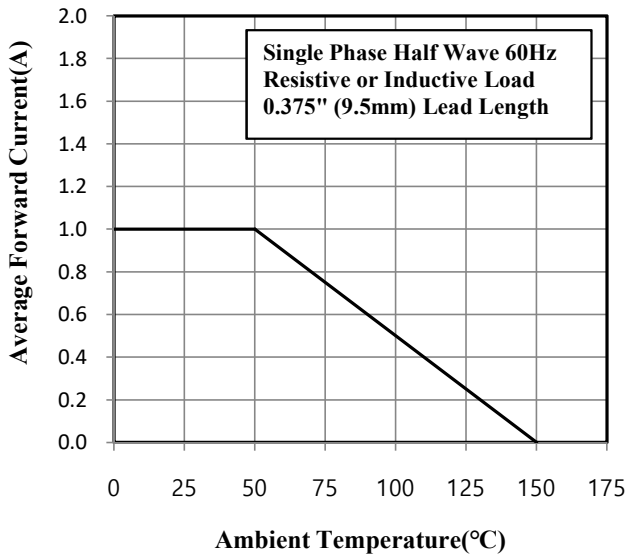


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

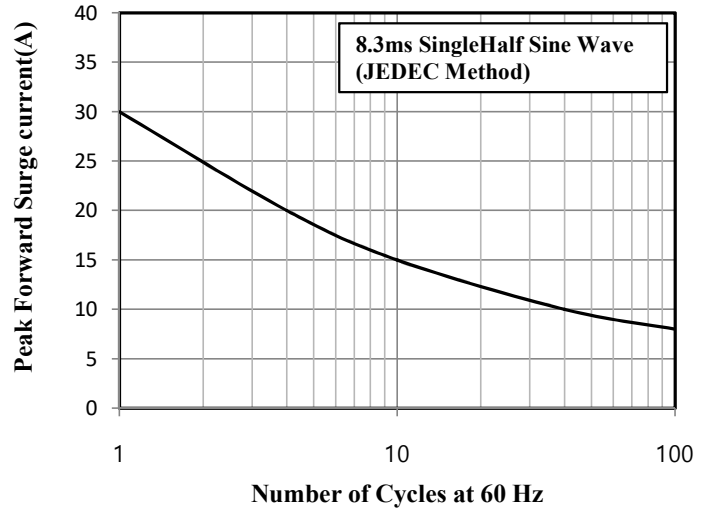


Fig.3 Typical Instantaneous Forward Characteristics

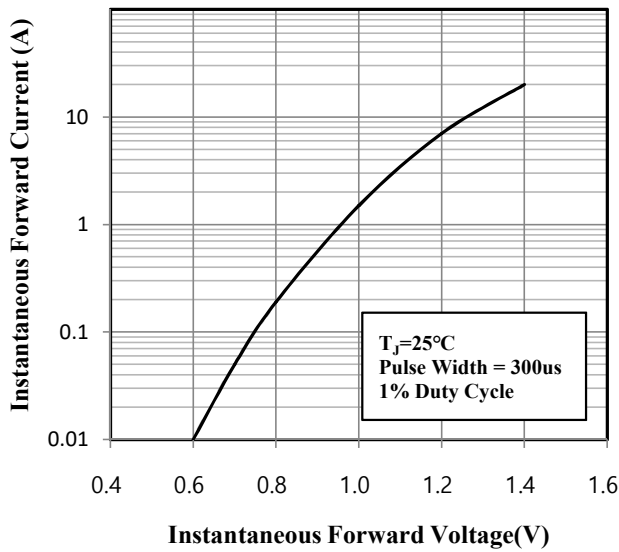


Fig.4 Typical Junction Capacitance

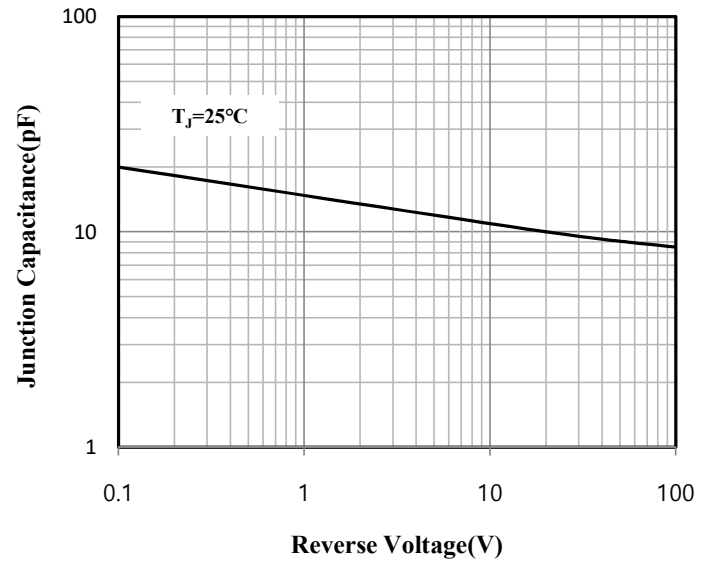


Fig.5 Typical Reverse Characteristics

