

Features

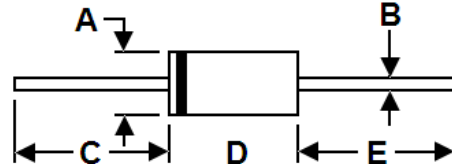
- * Low Forward Voltage Drop
- * High Current Capability
- * High Reliability
- * High Surge Current Capability



RoHS
COMPLIANT

Package Outline Dimensions

R-1:



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	2.0	2.7	0.080	0.107
B	0.53	0.64	0.021	0.025
C	25.4	-	1.0	-
D	3.0	3.3	0.118	0.130
E	25.4	-	1.0	-

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
- * Mounting Position: Any

Maximum Ratings and Electrical Characteristics

Rating 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%.

Type Number	Symbol	1A1G	1A2G	1A3G	1A4G	1A5G	1A6G	1A7G	Unit
Maximum Recurrent 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 D.C Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375" (9.5mm)Lead Length @ $T_A=40^\circ C$	$I_{F(AV)}$	1.0							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	25							A
Maximum Instantaneous Forward Voltage at 1.0A	V_F	1.0							V
Maximum D.C Reverse Current @ $T_A=25^\circ C$ at Rated D.C Blocking Voltage @ $T_A=125^\circ C$	I_R	5.0 100							μA
Typical Junction Capacitance(Note1)	C_J	15							pF
Operating and Storage Temperature Range	T_J/T_{STG}	-55 to +150							$^\circ C$

Note:1、 Measured at 1MHz and Applied Reverse Voltage of 4.0V D.C.

Ratings and Characteristic Curves

FIG. 1 – TYPICAL FORWARD CURRENT DERATING CURVE

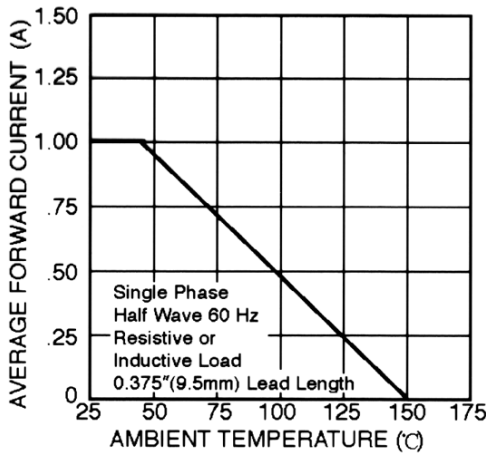


FIG. 2 – MAXIMUM NON REPETITIVE FORWARD SURGE CURRENT

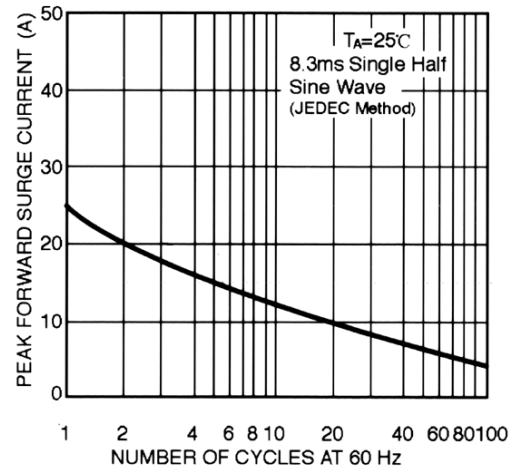


FIG. 3 – TYPICAL FORWARD CHARACTERISTICS

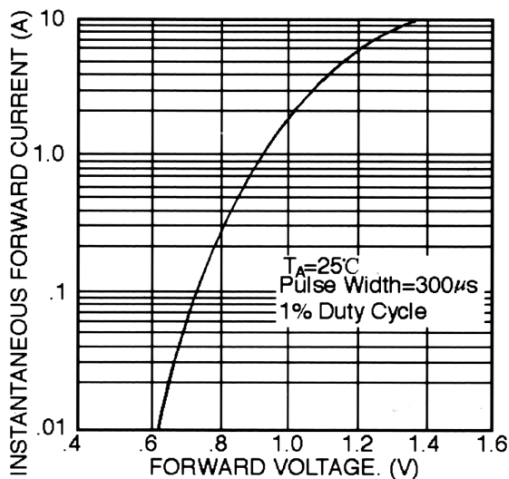
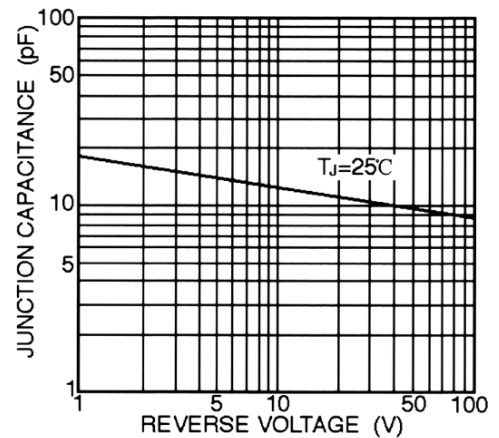


FIG. 4 – TYPICAL JUNCTION CAPACITANCE





1A1G THRU 1A7G

1.0 Amp. Glass Passivated Rectifiers

Ordering Information

Part No.	Package	Packing
1A1G~1A7G	R-1	3K/AMMO box
1A1G~1A7G	R-1	5K/AMMO box
1A1G~1A7G	R-1	5K/13" Paper reel
1A1G~1A7G	R-1	1K/Bulk packing