1S2G THRU 1S4G

ULTRAFAST EFFICIENT GLASS PASSIVATED RECTIFIER

VOLTAGE: 200 TO 400V **CURRENT: 0.7A**

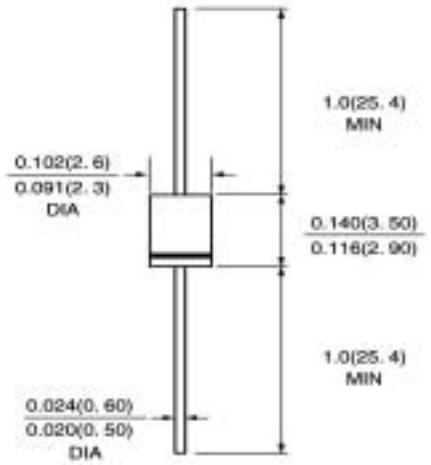
FEATURE

Molded case feature for auto insertion
High current capability
Low leakage current
High surge capability
High temperature soldering guaranteed
250°C /10sec/0.375" lead length at 5 lbs tension
Glass Passivated chip

MECHANICAL DATA

Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity: color band denotes cathode
Mounting position: any

R-1



Dimensions in inches and (millimeters)

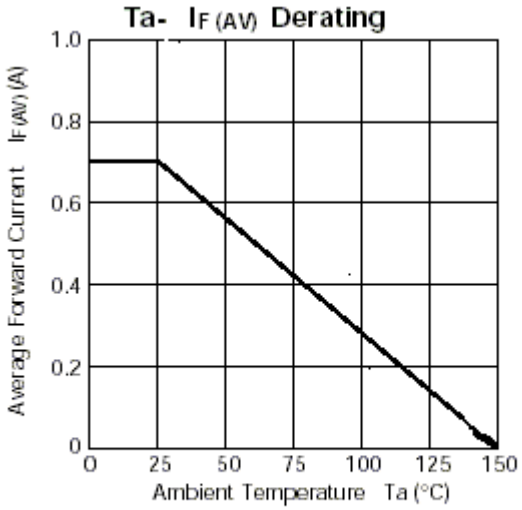
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

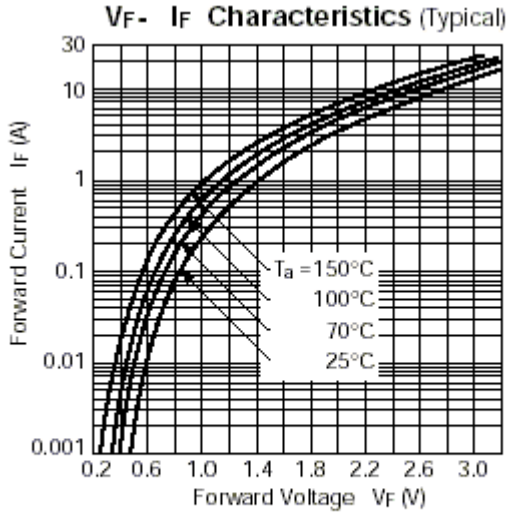
(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

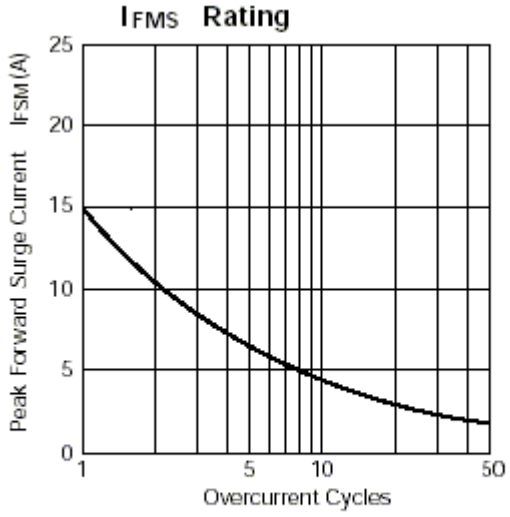
	SYMBOL	1S2G	1S4G	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	200	400	V
Maximum RMS Voltage	Vrms	140	280	V
Maximum DC blocking Voltage	Vdc	200	400	V
Maximum Average Forward Rectified Current 3/8" lead length at Ta =25°C	If(av)	0.7		A
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	Ifsm	15.0		A
Maximum Instantaneous Forward Voltage at rated forward current	Vf	1.8		V
Maximum full load reverse current full cycle at T_L =75°C	Ir(av)	50.0		µA
Maximum DC Reverse Current at rated DC blocking voltage Ta =25°C Ta =100°C	Ir	10.0 100.0		µA µA
Typical Junction Capacitance (Note 1)	Cj	15.0		pF
Maximum Reverse Recovery Time (Note 2)	Trr	35		nS
Operating Temperature (Note 3)	R(ja)	50.0		°C/W
Storage and Operation Junction Temperature	Tstg, Tj	-55 to +150		°C

Note:
1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
2. Test Condition If =0.5A, Ir =1.0A, Irr =0.25A
3. Thermal Resistance from Junction to Ambient at 0.375" lead length, P.C. Board Mounted

RATINGS AND CHARACTERISTIC CURVES 1S2G THRU 1S4G







[1] Rev.A1,22-Mar-05