

1S2G THRU 1S4G

ULTRAFAST EFFICIENT GLASS PASSIVATED RECTIFIER

VOLTAGE: 200 TO 400V

CURRENT: 0.7A

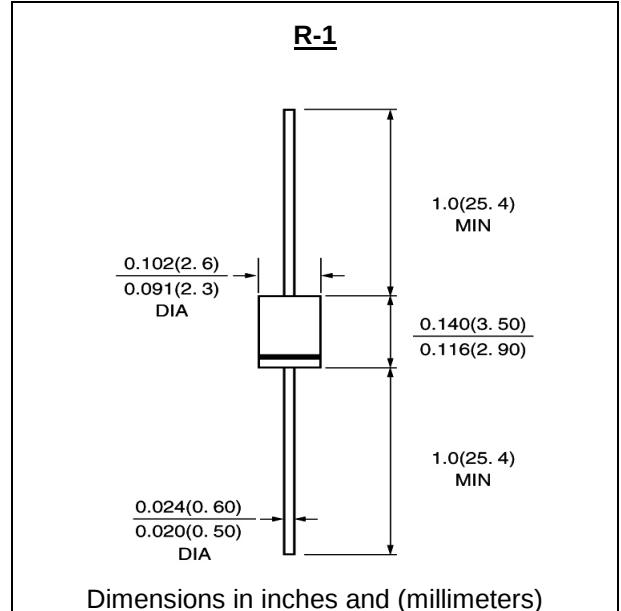


FEATURE

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



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	V _{rrm}	200	400	V
Maximum RMS Voltage	V _{rms}	140	280	V
Maximum DC blocking Voltage	V _{dc}	200	400	V
Maximum Average Forward Rectified Current 3/8" lead length at T _a =25°C	I _{f(av)}	0.7		A
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	I _{fsm}	15.0		A
Maximum Instantaneous Forward Voltage at rated forward current	V _f	1.8		V
Maximum full load reverse current full cycle at T _L =75°C	I _{r(av)}	50.0		μA
Maximum DC Reverse Current at rated DC blocking voltage T _a =25°C	I _r	10.0		μA
T _a =100°C		100.0		μA
Typical Junction Capacitance (Note 1)	C _j	15.0		pF
Maximum Reverse Recovery Time (Note 2)	T _{rr}	35		nS
Operating Temperature (Note 3)	R(ja)	50.0		°C /W
Storage and Operation Junction Temperature	T _{stg} , T _j	-55 to +150		°C

Note:

1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
2. Test Condition I_f =0.5A, I_r =1.0A, I_{rr} =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

