

SU1Y-18C

**SINTERED GLASS JUNCTION
FAST SWITCHING PLASTIC RECTIFIER**
VOLTAGE: 1600V CURRENT: 0.5A

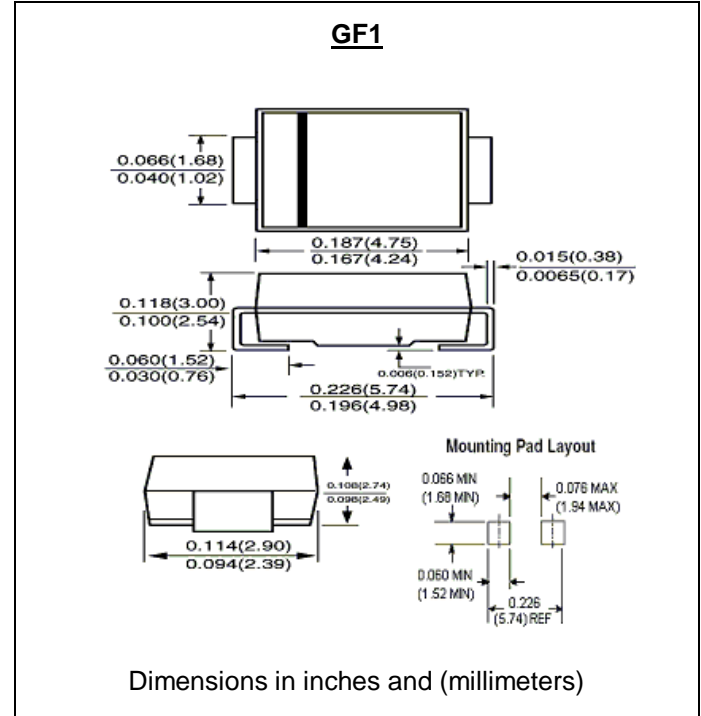


FEATURE

High temperature metallurgic ally bonded construction
Sintered glass cavity free junction
Capability of meeting environmental standard of MIL-S-19500
High temperature soldering guaranteed
350°C/10sec at 5 lbs tension
Operate at Ta =55°C with no thermal run away
Typical Ir<0.2µA
Meet Standard of AEC-Q101

MECHANICAL DATA

Terminal: Plated leads solderable per J-STD-002
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)

	Symbol	SU1Y-18C	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	1600	V
Maximum RMS Voltage	V _{rms}	1120	V
Maximum DC blocking Voltage	V _{dc}	1600	V
Minimum Reverse Breakdown Voltage IR = 100µA	V(BR)R	1650	V
Maximum Average Forward Rectified Current	I _{f(av)}	0.5	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	15	A
Maximum Forward Voltage at 0.5A	V _f	3.6	V
Maximum DC Reverse Current at rated DC blocking voltage	I _r	5.0 200.0	µA
Maximum Reverse Recovery Time	T _{rr}	75	nS
Typical Junction Capacitance	C _j	5.0	pF
Typical Thermal Resistance	R _{th(ja)}	65.0	°C /W
Storage and Operating Junction Temperature	T _{stg} , T _j	-65 to +175	°C

Note:

- Reverse Recovery Condition I_f =0.5A, I_r =1.0A, I_{rr} =0.25A
- Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

