SHANGHAI SUNRISE ELECTRONICS CO., LTD.

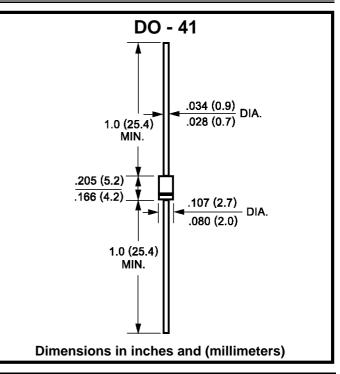
FR101G THRU FR107G GLASS PASSIVATED FAST RECOVERY RECTIFIER VOLTAGE: 50 TO 1000V CURRENT: 1.0A

FEATURES

- Molded case feature for auto insertion
- Glass passivated chip
- High current capability
- Low leakage current
- Fast switching for high efficiency
- High surge capability
- High temperature soldering guaranteed: 250°C/10sec/0.375"(9.5mm) lead length at 5 lbs tension

MECHANICAL DATA

- Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
- Case: Molded with UL-94 Class V-O 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%)

RATINGS	SYMBOL	FR 101G	FR 102G	FR 103G	FR 104G	FR 105G	FR 106G	FR 107G	UNITS
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 (9.5mm lead length, at $T_a=55^{\circ}C$)	I _{F(AV)}	1.0							А
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I _{FSM}	30.0							А
Maximum Instantaneous Forward Voltage (at rated forward current)	V_{F}	1.3							V
Maximum DC Reverse Current $T_a=25^{\circ}C$ (at rated DC blocking voltage) $T_a=100^{\circ}C$	Б	5.0 100							μΑ μΑ
Maximum Reverse Recovery Time (Note 1)	trr	150			250	50	00	nS	
Typical Junction Capacitance (Note 2)	CJ	15.0							рF
Typical Thermal Resistance (Note 3)	R _θ (ja)	50							°C/W
Storage and Operation Junction Temperature	T_{STG}, T_{J}	-65 to +150							°C
Note: 1.Reverse recovery condition I _F =0.5A, I _R = ⁻	1.0A, Irr=0.2	25A							

2.Measured at 1.0 MHz and applied voltage of 4.0V_{dc}

3. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C. board mounted

http://www.sse-diode.com

TECHNICAL SPECIFICATION