



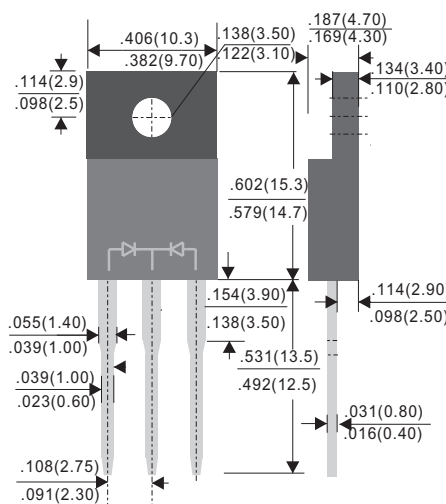
SF101FC
THRU
SF108FC

**10.0 AMP GLASS PASSIVATED SUPER FAST RECTIFIER
ITO-220 PACKAGE**

Pb Free Product

FEATURES

- * Low switching noise
- * Low thermal resistance
- * High current capability
- * Super fast switching speed
- * High reliability
- * Good for switching mode circuit
- * Glass passivated junction
- * RoHS product for packing code suffix "G"
- Halogen free product for packing code suffix "H"



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

RATINGS	SYMBOL	SF101FC	SF102FC	SF103FC	SF104FC	SF105FC	SF106FC	SF108FC	UNIT
Marking Code		SF101C	SF102C	SF103C	SF104C	SF105C	SF106C	SF108C	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	Volts
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	Volts
Maximum Average Forward Rectified Current at T _C = 125°C	I _O	10.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	100							Amps
Typical Thermal Resistance	R _{θJA}	3							°C/W
Typical Junction Capacitance (Note 2)	C _J	50				30			pF
Operating Temperature Range	T _J	-65 to +150							°C
Storage Temperature Range	T _{STG}	-65 to +150							°C

CHARACTERISTICS	SYMBOL	SF101FC	SF102FC	SF103FC	SF104FC	SF105FC	SF106FC	SF108FC	UNIT
Maximum Forward Voltage at 5.0A DC(Note 3)	V _F	1.00				1.35		1.75	Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	I _R	10.0				500			μAmps
Maximum Reverse Recovery Time (Note 1)	T _{rr}	35							nS

- NOTES :1. Test Conditions: I_F = 0.5A, I_R = -1.0A, I_{RR} = -0.25A
 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
 3. Suffix "A" =Common Anode.

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RATING AND CHARACTERISTIC CURVES (SF101FC THRU SF108FC)

