







Features

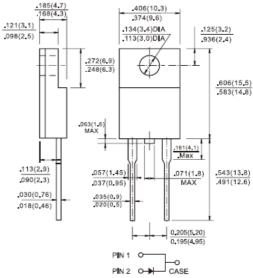
- High efficiency, low VF.
- ♦ High current capavility
- High reliability
- High surge current capability
- ♦ Low power loss.
- For use in low voltage, high frequency inventor, free wheeling, and polarity protection application
- Green compound with suffix "G" on packing code & prefix "G" on datecode.

Mechanical Data

- ♦ Cases: ITO-220AC molded plastic
- ♦ Epoxy: UL 94V-0 rate flame retardant
- Terminals: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: As marked
- High temperature soldering guaranteed: 260°C/10 seconds 16".,(4.06mm) from case.
- ♦ Weight: 1.70 grams

SFAF1601G - SFAF1608G

16.0AMPS. Isolated Glass Passivated Super Fast Rectifiers ITO-220AC



Dimensions in inches and (millimeters)

Marking Diagram SFAF160XG = Specific Device Code G = Green Compound Y = Year WW = Work Week

Maximum Ratings and Electrical Characteristics

For capacitive load, derate current by 20%

Type Number	Symbol	SFAF 1601G	SFAF 1602G	SFAF 1603G	SFAF 1604G	SFAF 1605G	SFAF 1606G	SFAF 1607G	SFAF 1608G	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	150	200	300	400	500	600	V
Maximum RMS Voltage	V_{RMS}	35	70	105	140	210	280	350	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	500	600	V
Maximum Average Forward Rectified Current $@T_C=100^{\circ}C$	I _{F(AV)}	16								Α
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	200								Α
Maximum Instantaneous Forward Voltage (Note 1) @ 16 A	V _F	0.975 1.3 1.7					.7	V		
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	I _R	10 400								uA uA
Maximum Reverse Recovery Time (Note 2)	Trr	35								nS
Typical Junction Capacitance (Note 3)	Cj	130 100						pF		
Typical Thermal Resistance C (Note 4)	$R_{\theta JC}$	1.3								°C/W
Operating Temperature Range	TJ	- 65 to + 150								оС
Storage Temperature Range	T _{STG}	- 65 to + 150								оС

Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle

Note 2: Reverse Recovery Test Conditions: \models =0.5A, I_R =1.0A, I_{RR} =0.25A.

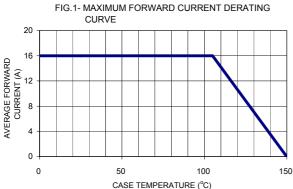
Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

Note 4: Mounted on Heatsink Size of 3" x 5" x 0.25" Al-Plate.

Version:D10



RATINGS AND CHARACTERISTIC CURVES (SFAF1601G THRU SFAF1608G)



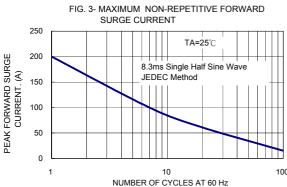


FIG. 2- TYPICAL REVERSE CHARACTERISTICS 1000 INSTANTANEOUS REVERSE CURRENT. (uA) 100 TA=100°C TA=75° 10 TA=25°C 0 20 40 60 80 100 120 140 PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



