SEMICONDUCTOR

16A SUPER-FAST GLASS PASSIVATED RECTIFIER

Data Sheet 2622 Rev.—

Features

- Glass Passivated Die Construction
- Super-Fast Switching for High Efficiency
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

Mechanical Data

Case: Molded Plastic

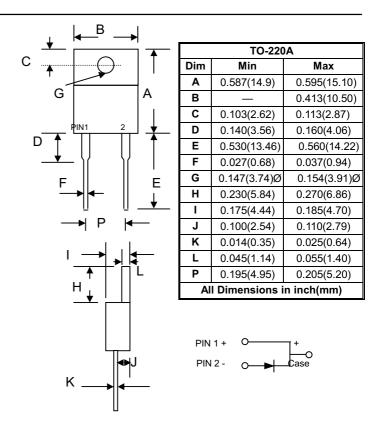
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: See Diagram

Weight: 2.24 grams (approx.)

Mounting Position: Any

Marking: Type Number



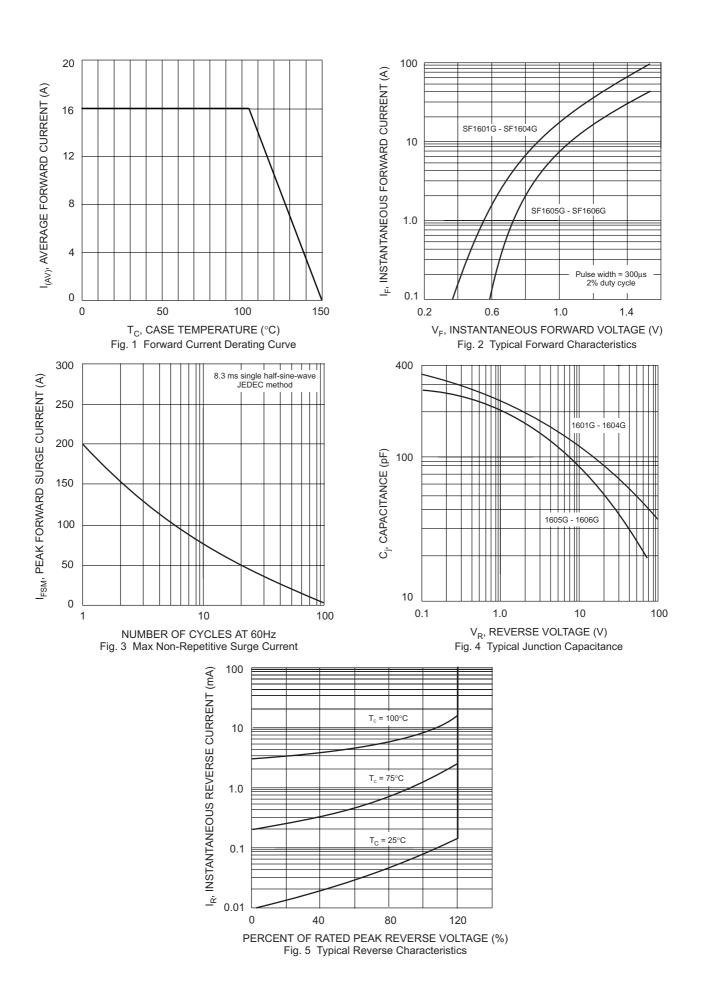
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		Symbol	SF1601G	SF1602G	SF1603G	SF1604G	SF1605G	SF1606G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	50	100	150	200	300	400	٧
RMS Reverse Voltage		VR(RMS)	35	70	105	140	210	280	V
Average Rectified Output Current @T _C = 105°C		lo	16						Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	200						Α
Forward Voltage	@I _F = 16A	VFM	0.975 1.3				V		
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 100°C	lгм	10 400					μA	
Reverse Recovery Time (Note 1)		trr	35						nS
Typical Junction Capacitance (Note 2)		Cj	170 140					pF	
Operating and Storage Temperature Range		Тј, Тѕтс	-65 to +150						°C

Note: 1. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 1.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.





TECHNICAL DATA

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