

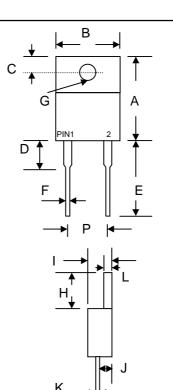
16A SUPER-FAST GLASS PASSIVATED RECTIFIER

Features

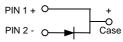
- Glass Passivated Die Construction
- Super-Fast Switching for High Efficiency
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

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



| TO-220A | | | | | |
|----------------------|--------|--------|--|--|--|
| Dim | Min | Max | | | |
| Α | 14.9 | 15.1 | | | |
| В | _ | 10.5 | | | |
| С | 2.62 | 2.87 | | | |
| D | 3.56 | 4.06 | | | |
| Е | 13.46 | 14.22 | | | |
| F | 0.68 | 0.94 | | | |
| G | 3.74 Ø | 3.91 Ø | | | |
| Н | 5.84 | 6.86 | | | |
| I | 4.44 | 4.70 | | | |
| J | 2.54 | 2.79 | | | |
| К | 0.35 | 0.64 | | | |
| L | 1.14 | 1.40 | | | |
| Р | 4.95 | 5.20 | | | |
| All Dimensions in mm | | | | | |



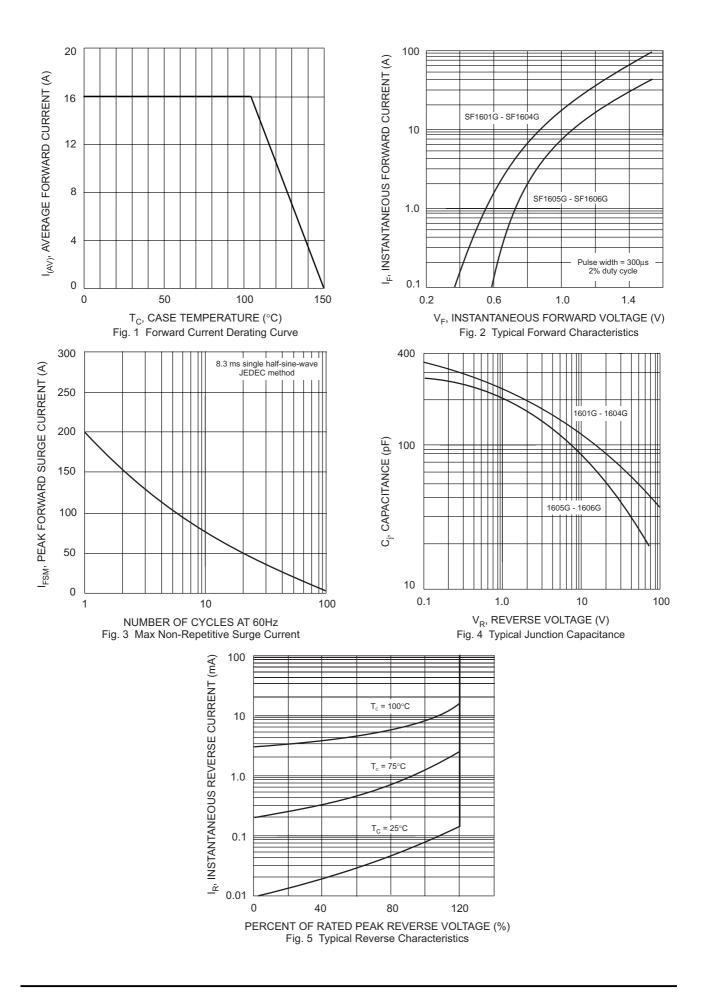
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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 | V |
| RMS Reverse Voltage | VR(RMS) | 35 | 70 | 105 | 140 | 210 | 280 | V |
| Average Rectified Output Current @T _c = 105°C | lo | 16 | | | | | | А |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | IFSM | 200 | | | | | A | |
| Forward Voltage @I _F = 16A | VFM | 0.975 1.3 | | | | .3 | V | |
| Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$ | Iгм | 10 400 | | | | | μA | |
| Reverse Recovery Time (Note 1) | trr | 35 | | | | | nS | |
| Typical Junction Capacitance (Note 2) | Cj | 170 140 | | | | 40 | pF | |
| Operating and Storage Temperature Range | Тj, Tsтg | -65 to +150 | | | | | °C | |

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

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



| Product No. | Package Type | Shipping Quantity |
|-------------|--------------|-------------------|
| SF1601G | TO-220A | 50 Units/Tube |
| SF1602G | TO-220A | 50 Units/Tube |
| SF1603G | TO-220A | 50 Units/Tube |
| SF1604G | TO-220A | 50 Units/Tube |
| SF1605G | TO-220A | 50 Units/Tube |
| SF1606G | TO-220A | 50 Units/Tube |

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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