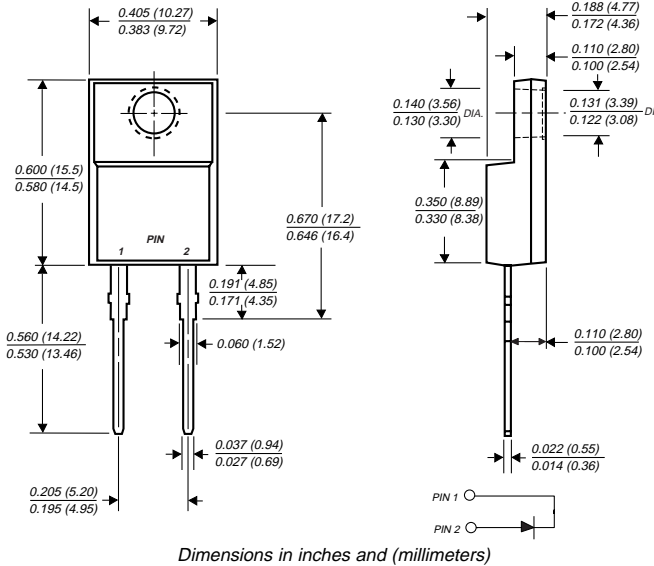


GIF1401 THRU GIF1404

FAST EFFICIENT PLASTIC RECTIFIER

Reverse Voltage - 50 to 200 Volts Forward Current - 8.0 Amperes

ITO-220AC



FEATURES

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Glass passivated chip junction
- ◆ Low power loss
- ◆ Low leakage current
- ◆ High surge capability
- ◆ Superfast recovery time for high efficiency
- ◆ High temperature soldering guaranteed: 250°C, 0.25" (6.35mm) from case for 10 seconds



MECHANICAL DATA

Case: JEDEC ITO-220AC molded plastic body over passivated chip
Terminals: Lead solderable per MIL-STD-750, Method 2026
Polarity: As marked
Mounting Position: Any
Weight: 0.064 ounce, 1.81 grams
Mounting Torque: 5 in. - lbs. max.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

| | SYMBOLS | GIF1401 | GIF1402 | GIF1403 | GIF1404 | UNITS |
|---|-----------------------------------|----------------------------------|---------|---------|---------|-------|
| Maximum recurrent peak reverse voltage | V _{RRM} | 50 | 100 | 150 | 200 | Volts |
| Maximum RMS voltage | V _{RMS} | 35 | 70 | 105 | 140 | Volts |
| Maximum DC blocking voltage | V _{DC} | 50 | 100 | 150 | 200 | Volts |
| Maximum average forward rectified current at T _C =125°C | I _(AV) | 8.0 | | | | Amps |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) at T _C =125°C | I _{FSM} | 125.0 | | | | Amps |
| Maximum instantaneous forward voltage at: I _F =4A, T _J =100°C I _F =8A, T _J =100°C I _F =4A, T _J =25°C I _F =8A, T _J =25°C | V _F | 0.800 0.895 0.900 0.975 | | | | Volts |
| Maximum DC reverse current at rated DC blocking voltage T _C =25°C T _C =100°C | I _R | 5.0 150.0 | | | | μA |
| Maximum reverse recovery time (NOTE 1) | t _{rr} | 35.0 | | | | ns |
| Typical junction capacitance (NOTE 2) | C _J | 85.0 | | | | pF |
| Typical thermal resistance (NOTE 3) | R _{θJC} | 5.0 | | | | °C/W |
| Operating and storage temperature range | T _J , T _{STG} | -65 to +150 | | | | °C |

NOTES:

- (1) Reverse recovery test conditions: I_F=0.5A, I_R=1.0A, I_{rr}=0.25A
- (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- (3) Thermal resistance from junction to case mounted on heatsink

RATINGS AND CHARACTERISTIC CURVES GIF1401 THRU GIF1404

