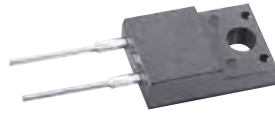


FML-G26S

Super Fast Rectifiers

VOLTAGE RANGE: 600 V

CURRENT: 10 A



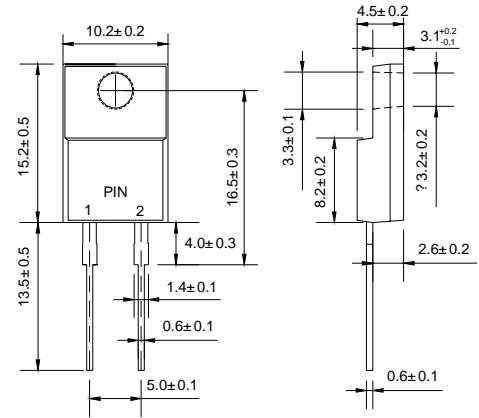
ITO-220AC

Features

- ◇ Metal-Semiconductor junction with guard ring
- ◇ Epitaxial construction
- ◇ Low forward voltage drop, low switching losses
- ◇ High surge capability
- ◇ For use in low voltage, high frequency inverters free wheeling, and polarity protection applications
- ◇ The plastic material carries U/L recognition 94V-0

Mechanical Data

- ◇ Case: JEDEC ITO-220AC
- ◇ Polarity: As marked
- ◇ Weight: 0.056 ounces, 1.587 gram
- ◇ Mounting position: Any



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

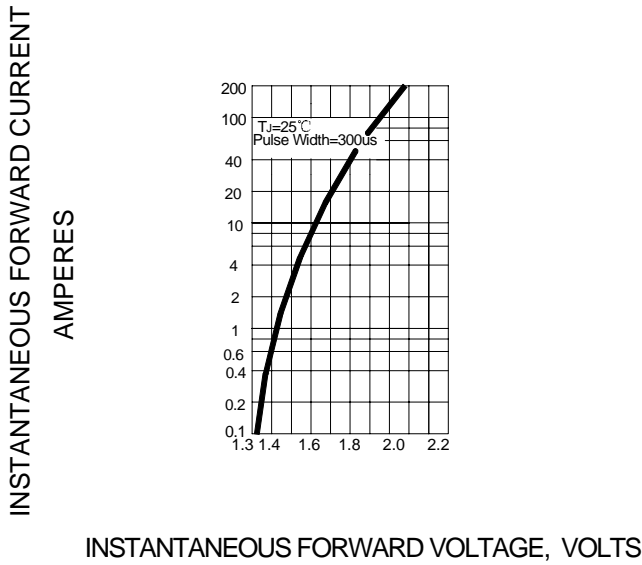
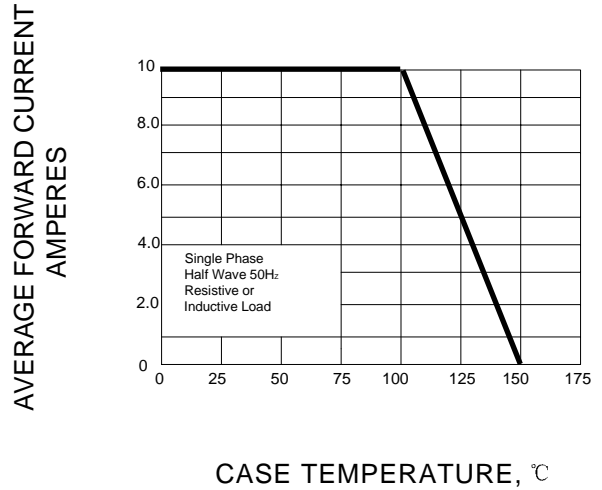
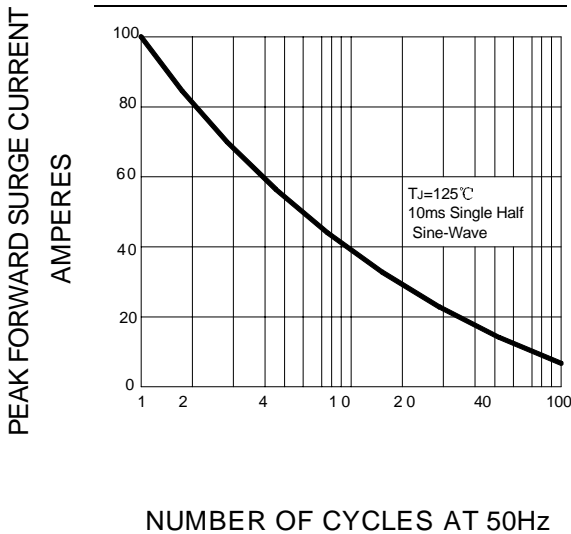
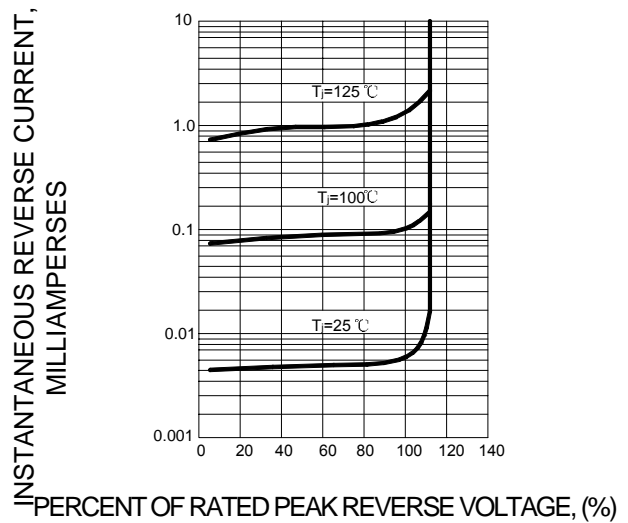
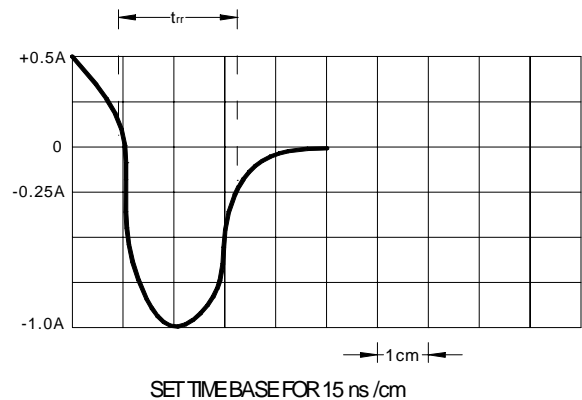
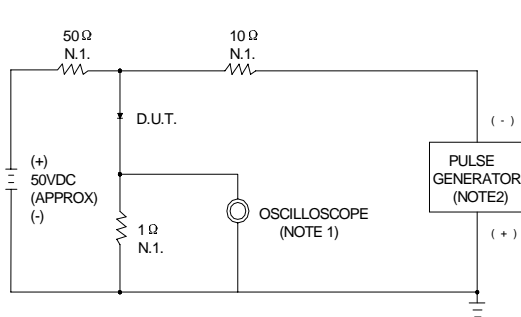
Single phase, half wave, 50 Hz, resistive or inductive load. For capacitive load, derate by 20%.

| | | FML- G26S | UNITS |
|--|-----------------|-----------------|--------------|
| Maximum recurrent peak reverse voltage | V_{RRM} | 600 | V |
| Maximum RMS voltage | V_{RMS} | 420 | V |
| Maximum DC blocking voltage | V_{DC} | 600 | V |
| Maximum average forward rectified current @ $T_C=100^\circ C$ | $I_{F(AV)}$ | 10 | A |
| Peak forward surge current 10ms single half-sine-wave superimposed on rated load | I_{FSM} | 100 | A |
| Maximum instantaneous forward voltage ($I_F=10A$) | V_F | 1.7 | V |
| Maximum reverse current @ $T_J=25^\circ C$ at rated DC blocking voltage @ $T_J=100^\circ C$ | I_R | 0.1 0.3 | mA |
| Maximum reverse recovery time (Note1) | t_{rr} | 40 | ns |
| Typical thermal resistance (Note2) | $R_{\theta JC}$ | 4.0 | $^\circ C/W$ |
| Operating junction temperature range | T_J | - 55 ---- + 150 | $^\circ C$ |
| Storage temperature range | T_{STG} | - 55 ---- + 150 | $^\circ C$ |

NOTE: 1. Measured with $I_F=0.5A$, $I_R=1A$, $I_{rr}=0.25A$.

2. Thermal resistance junction to case.

Ratings AND Characteristic Curves

FIG.1 – TYPICAL FORWARD CHARACTERISTIC

FIG.2– FORWARD DERATING CURVE

FIG.3– PEAK FORWARD SURGE CURRENT

FIG.4 – TYPICAL REVERSE CHARACTERISTICS

FIG.5 – REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM


NOTES: 1. RISE TIME = 7ns MAX. INPUT IMPEDANCE = 1M Ω , 22pF
 2. RISE TIME = 10ns MAX. SOURCE IMPEDANCE = 50