

FAST Recovery Rectifiers
Glass Passivation

REVERSE VOLTAGE - **200** Volts
FORWARD CURRENT - **16.0** Amperes

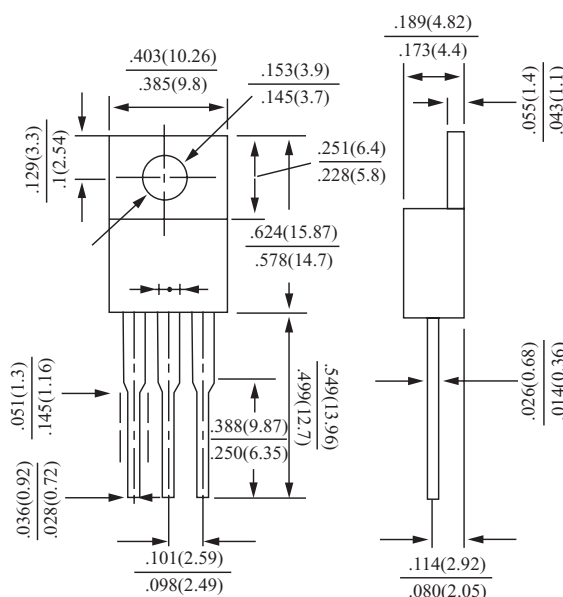
FEATURES

- Easy pick and place
- Built-in strain relief
- Low forward voltage drop
- High current capability
- Fast switching speed
-

MECHANICAL DATA

- Case : TO-220AB molded plastic
- Polarity : Color band denotes cathode
- Weight : 1.948 grams
- Mounting position : Any

TO-220AB



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

| PARAMETER | SYMBOL | F16C20C | UNIT |
|---|-----------------------------------|--------------|------|
| Maximum repetitive peak reverse voltage | VRRM | 200 | V |
| Maximum RMS voltage | VRMS | 160 | V |
| Maximum DC blocking voltage | VDC | 200 | V |
| Maximum average forward rectified current Per leg | I _F | 16.0 8.0 | A |
| Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load | I _{FSM} | 125 | A |
| Maximum instantaneous I _F =8A@25 | V _F | 1.30 | V |
| Maximum DC Reverse Current @TA=25 at Rated DC Blocking Voltage @TA=100 | I _R | 10 10,000 | uA |
| Typical Junction Capacitance | C _J | 100 | pF |
| Typical Thermal Resistance | R _{JA} | 3 | /W |
| Maximum Reverse Recovery Time | TRR | 250 | nS |
| Operating & Storage Temperature Range | T _J & T _{STG} | -55 to +150 | |

FIG. 1-TYPICAL FORWARD CURRENT DERATING

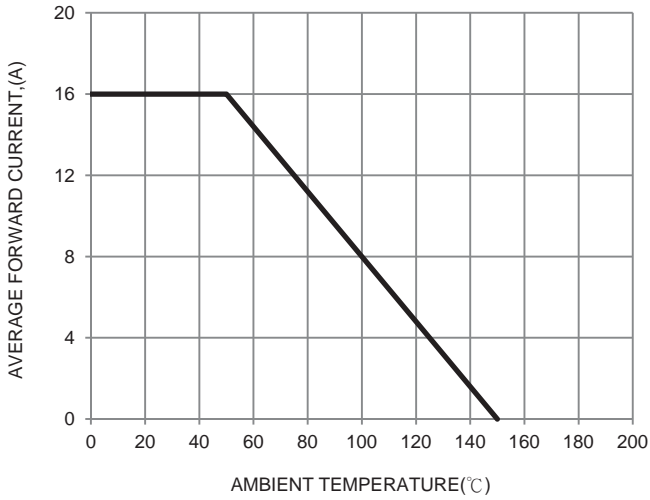


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

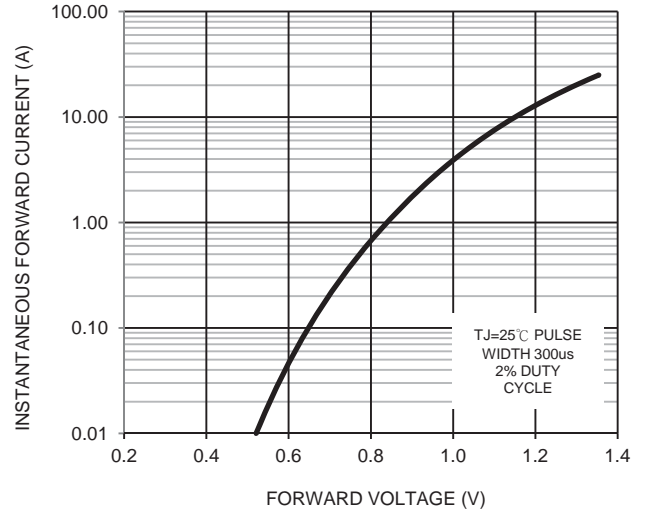


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

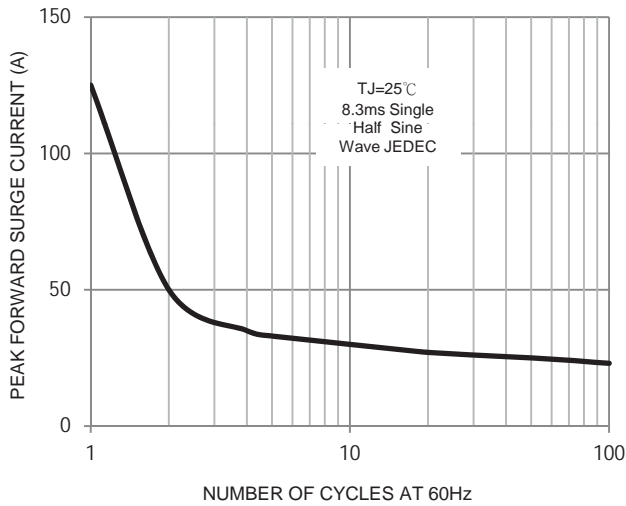


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

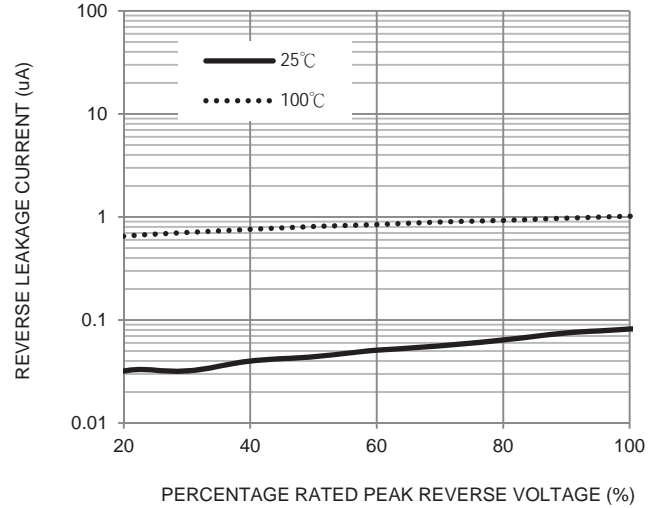


FIG. 5-TYPICAL JUNCTION CAPACITANCE

