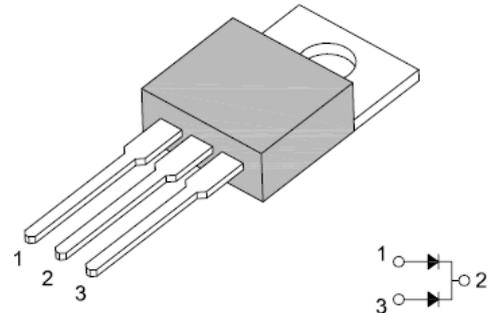


16A Super Fast Recovery Rectifiers

Features

- Glass passivated chip junction
- Super fast recovery times, high voltage
- Low power loss, high efficiency
- Low forward voltage, high current capability
- High surge current capability
- RoHS Compliance



TO-220



Mechanical Data

| | |
|-------------------------|----------------------------------------------------------|
| Case: | TO-220, molded plastic |
| Epoxy: | Plastic package has UL flammability classification 94V-0 |
| Terminals: | Lead, solderable per MIL-STD-202, Method 208 |
| Polarity: | As marked |
| Mounting Torque: | 10 in-lbs maximum |
| Weight: | 0.08 ounces, 2.24 grams |

Maximum Ratings and Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless noted otherwise)

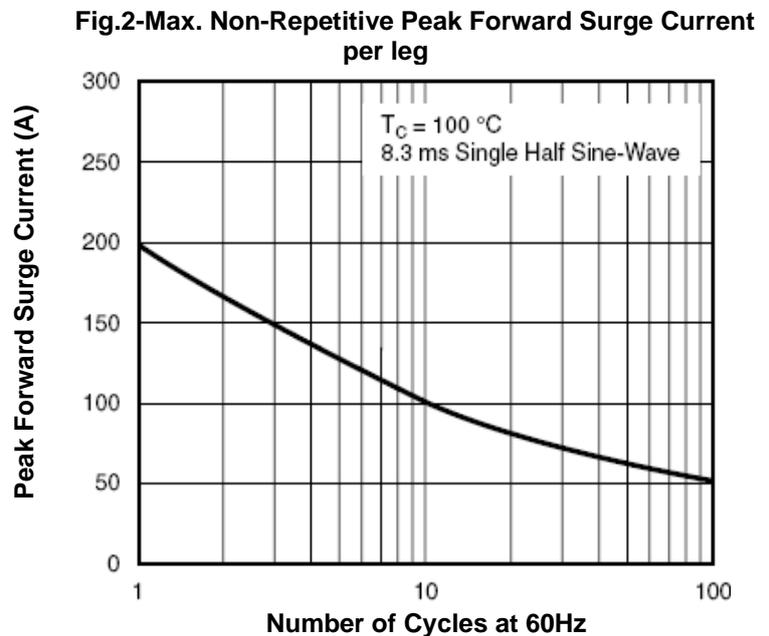
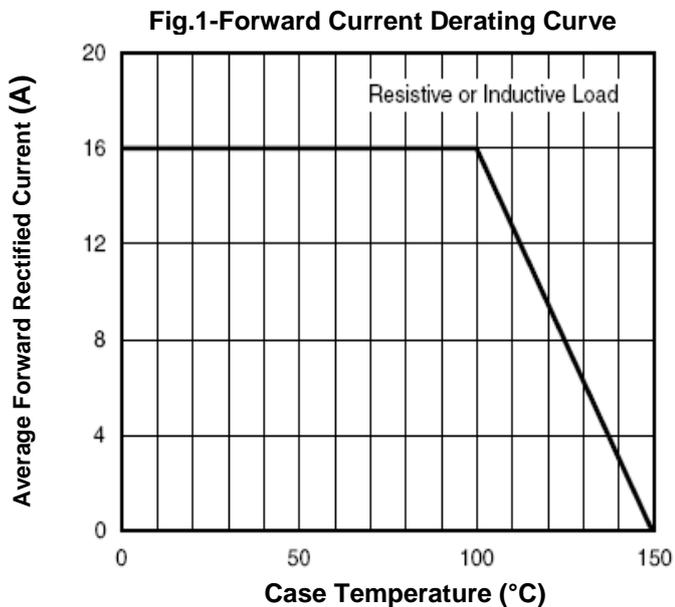
| Symbol | Description | FEP 16AT | FEP 16BT | FEP 16CT | FEP 16DT | FEP 16FT | FEP 16GT | FEP 16HT | FEP 16JT | Unit | Conditions |
|---------------|-------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|------|-----------------------------------------------------------------------|
| VRRM | Maximum Repetitive Peak Reverse Voltage | 50 | 100 | 150 | 200 | 300 | 400 | 500 | 600 | V | |
| VRMS | Maximum RMS Voltage | 35 | 70 | 105 | 140 | 210 | 280 | 350 | 420 | V | |
| VDC | Maximum DC Blocking Voltage | 50 | 100 | 150 | 200 | 300 | 400 | 500 | 600 | V | |
| IF(AV) | Maximum Average Forward Rectified Current | 16 | | | | | | | | A | $T_C=100^{\circ}\text{C}$ |
| IFSM | Peak Forward Surge Current per leg | 200 | | | | | | | | A | 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) |

16A Super Fast Recovery Rectifiers

FEP16AT - FEP16JT

| Symbol | Description | FEP 16AT | FEP 16BT | FEP 16CT | FEP 16DT | FEP 16FT | FEP 16GT | FEP 16HT | FEP 16JT | Unit | Conditions | |
|---------------------------------------|----------------------------------------------------------|-------------|----------|----------|----------|----------|----------|----------|----------|------|------------------------------------------------------------------|------------------------|
| V_F | Maximum Instantaneous Forward Voltage per leg | 0.95 | | | | 1.30 | | 1.50 | | V | I _F =8.0A | |
| I_R | Maximum DC Reverse Current at Rated DC Blocking Voltage | 10 | | | | | | | | | μA | T _C =25° C |
| | | 500 | | | | | | | | | | T _C =100° C |
| T_{rr} | Typical Reverse Recovery Time per leg | 35 | | | | 50 | | | | nS | I _F =0.5A, I _R =1A, I _{rr} =0.25A | |
| C_J | Typical Junction Capacitance per leg | 85 | | | | | | 60 | | pF | V _R =4V, f=1MHz | |
| R_{thJC} | Typical Thermal Resistance from Junction to Case per leg | 2.2 | | | | | | | | | ° C/W | |
| T_J, T_{STG} | Operating Junction and Storage Temperature Range | -55 to +150 | | | | | | | | | ° C | |

Typical Characteristics Curves



16A Super Fast Recovery Rectifiers

FEP16AT - FEP16JT

Fig.3- Typical Forward Characteristics per leg

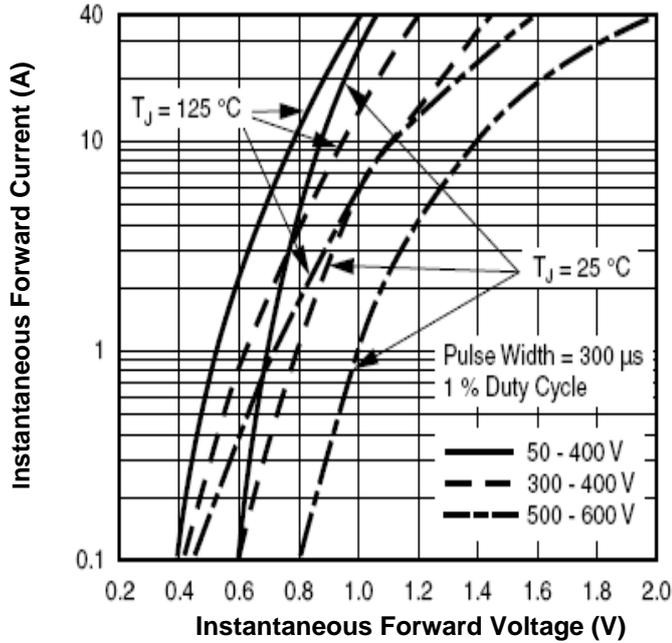


Fig.4-Typical Reverse Characteristics per leg

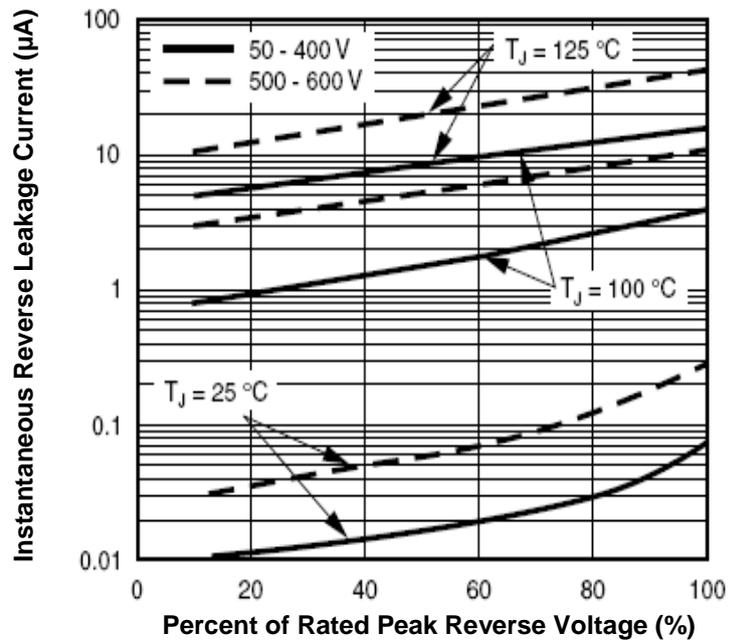
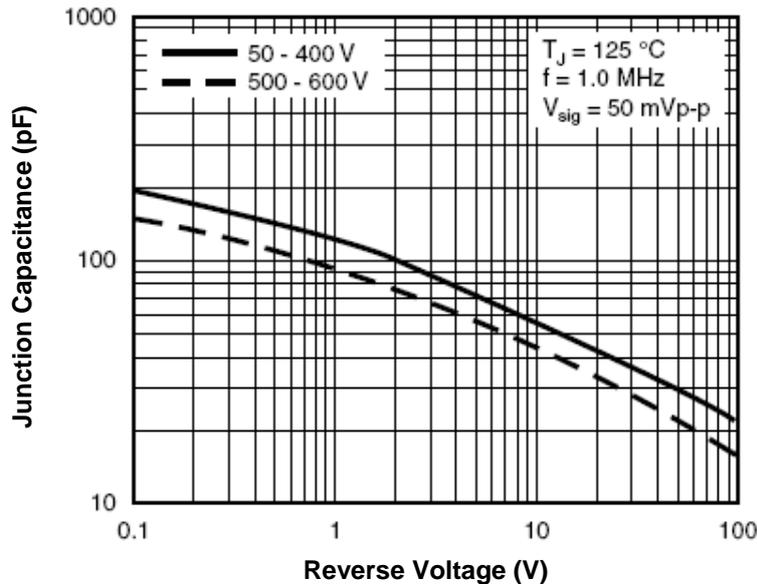


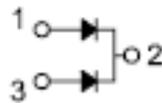
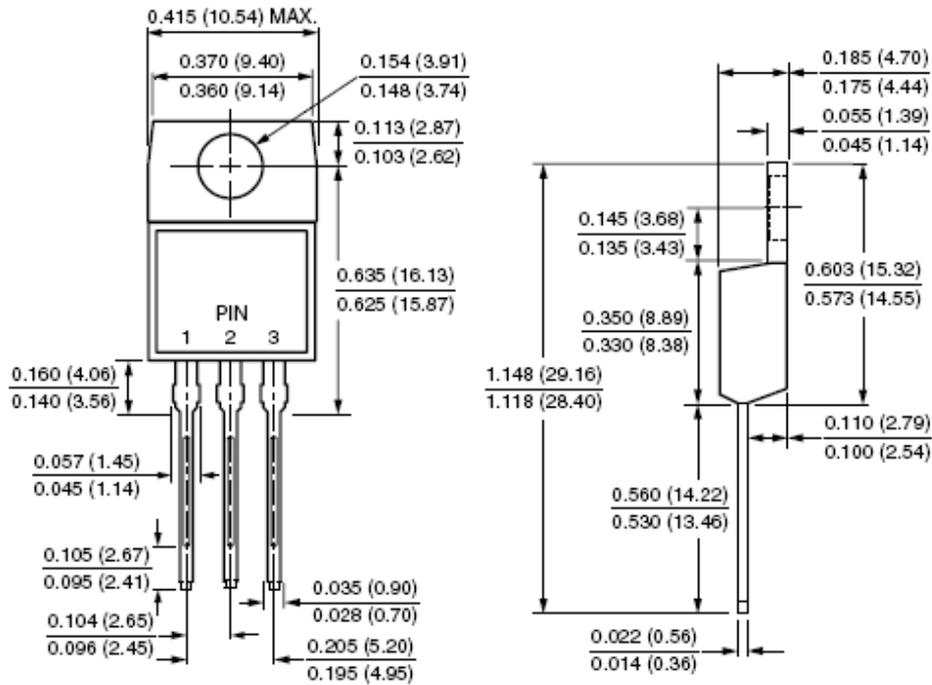
Fig.5- Typical Junction Capacitance per leg



16A Super Fast Recovery Rectifiers

FEP16AT - FEP16JT

Dimensions in inches (mm)



TO-220

16A Super Fast Recovery Rectifiers

FEP16AT - FEP16JT

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