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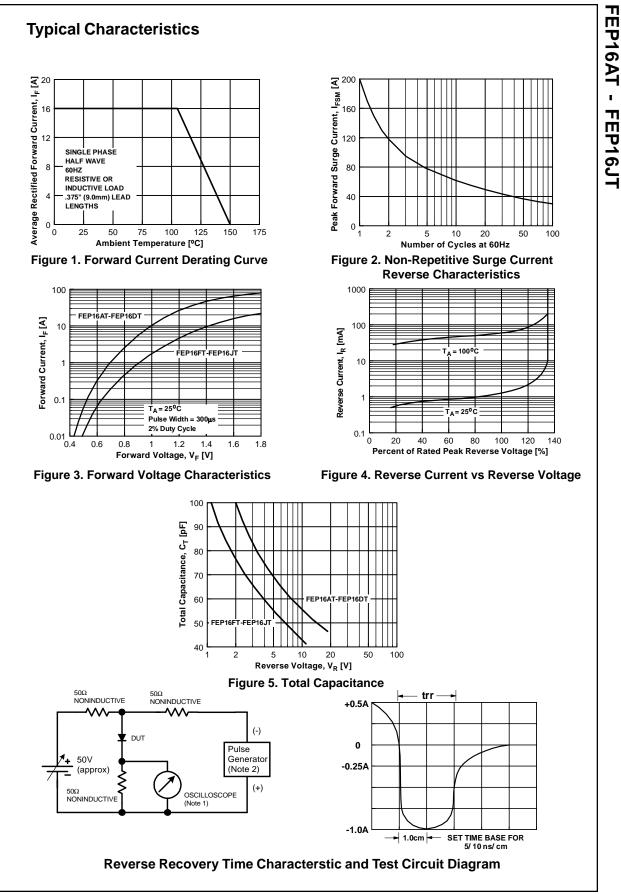
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|  | FEP16   | AT -                       | FEP                               | 16.              | JT                         |                    | PIN 1 O-        | PI                | ASE<br>N 2      |
|--|---|----------------------------|-----------------------------------|------------------|----------------------------|--------------------|-----------------|-------------------|-----------------|
| eatures  |   |                            |                                   |                  |                            |                    | PIN 1 O-        | ┫ .               |                 |
| Low for  | ward voltage drop.  |                            |                                   |                  |                            |                    | PIN 3 O         |                   | )<br>ASE<br>N 2 |
| Hiah su  | rge current capacity.   |                            |                                   |                  |                            |                    | Negat<br>Suffix | tive CT           | IN Z            |
| Ū.   | 1   |                            |                                   |                  |                            |                    | Sullix          | A                 |                 |
| High cur   | rent capability.  |                            |                                   |                  |                            |                    | PIN 1 O-        |                   | AC              |
| High relia   | ability.  | TO-22                      | 1ΔR                               |                  |                            |                    | PIN 3 O-        |                   | ASE             |
| -  |   |                            |                                   |                  |                            |                    |                 |                   |                 |
| Average  | Forward Current Rating at 16A (8<br>Rectifiers (Glass Pas   | •                          | e).                               |                  |                            |                    | Doubl<br>Suffix | er                | N 2             |
| Average<br>Fast R<br>Absolut                               | Forward Current Rating at 16A (8<br>Rectifiers (Glass Pas<br>te Maximum Ratings*  | •                          | e).<br><b>d)</b>                  |                  | 2110                       |                    | Doubl           | er                | N 2             |
| Average  | Forward Current Rating at 16A (8<br>Rectifiers (Glass Pas   | sivate                     | e).<br><b>d)</b><br>s otherwise r |                  | alue                       | 16GT               | Doubl           | er                |                 |
| Average<br>Fast R<br>Absolut                               | Forward Current Rating at 16A (8<br>Rectifiers (Glass Pas<br>te Maximum Ratings*  | Ssivate                    | e).<br>d)<br>s otherwise r        | V                | <b>alue</b><br>16FT<br>300 | <b>16GT</b><br>400 | Doubl<br>Suffix | er<br>"D"         | N 2             |
| Average<br>Fast R<br>Absolut<br>Symbol                     | Forward Current Rating at 16A (8<br>Rectifiers (Glass Pas<br>te Maximum Ratings*<br>Parameter<br>Maximum Repetitive Reverse   | T <sub>A</sub> =25°C unles | e).<br>d)<br>s otherwise r        | <b>V</b><br>16DT | 16FT                       |                    | Doubl<br>Suffix | er<br>"D"<br>16JT | Units           |
| Average<br>Fast R<br>Absolut<br>Symbol                     | Forward Current Rating at 16A (8<br>Rectifiers (Glass Pas<br>te Maximum Ratings*<br>Parameter<br>Maximum Repetitive Reverse<br>Voltage<br>Average Rectified Forward Current,<br>.375 " lead length @ T <sub>A</sub> = 100°C<br>Non-repetitive Peak Forward Surge<br>Current | T <sub>A</sub> =25°C unles | e).<br>d)<br>s otherwise r        | V<br>16DT<br>200 | <b>16FT</b><br>300         |                    | Doubl<br>Suffix | er<br>"D"<br>16JT | Units<br>V      |
| Average<br>Fast R<br>Absolut<br>Symbol<br>V <sub>RRM</sub> | Forward Current Rating at 16A (8<br>Rectifiers (Glass Pas<br>te Maximum Ratings*<br>Parameter<br>Maximum Repetitive Reverse<br>Voltage<br>Average Rectified Forward Current,<br>375 " lead length @ T <sub>A</sub> = 100°C<br>Non-repetitive Peak Forward Surge             | T <sub>A</sub> =25°C unles | e).<br>d)<br>s otherwise r        | V<br>16DT<br>200 | <b>16FT</b><br>300<br>16   | 400                | Doubl<br>Suffix | er<br>"D"<br>16JT | Units<br>V<br>A |

| Symbol           | Parameter                               | Value | Units |
|------------------|---|-------|-------|
| P <sub>D</sub>   | Power Dissipation                       | 8.33  | W     |
| R <sub>eJA</sub> | Thermal Resistance, Junction to Ambient | 15    | °C/W  |
| R <sub>θJL</sub> | Thermal Resistance, Junction to Lead    | 2.2   | °C/W  |

### **Electrical Characteristics** $T_A = 25^{\circ}C$ unless otherwise noted

| Symbol          | Parameter  | Device    |      |      |      |      |          |      |      | Units |
|-----------------|--|-----------|------|------|------|------|----------|------|------|-------|
|                 |  | 16AT      | 16BT | 16CT | 16DT | 16FT | 16GT     | 16HT | 16JT | -     |
| V <sub>F</sub>  | Forward Voltage @ 8.0A   | 0.95      |      |      | 1.3  |      | 1.5      |      | V    |       |
| t <sub>rr</sub> | Reverse Recovery Time<br>$I_F = 0.5 \text{ A}, I_R = 1.0 \text{ A}, I_{RR} = 0.25 \text{ A}$ | 35 5      |      |      |      | 50   |          | ns   |      |       |
| I <sub>R</sub>  | Reverse Current @ rated $V_R$<br>$T_A = 25^{\circ}C$<br>$T_A = 100^{\circ}C$                 | 10<br>500 |      |      |      |      | μΑ<br>μΑ |      |      |       |
| C <sub>T</sub>  | Total Capacitance<br>$V_{R}$ = 4.0. f = 1.0 MHz  | 85 60     |      |      |      |      | 0        | pF   |      |       |



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FEP16AT - FEP16JT, Rev. C

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