

**Power Schottky Rectifier - 30Amp 150Volt**

**Features**

- Plastic package has Underwriters Laboratory Flammability Classifications 94V-0
- High Junction Temperature Capability
- Low forward voltage, high current capability
- High surge capacity
- Low power loss, high efficiency
- ESD performance human body mode > 6 KV
- Halogen-Free

**Application**

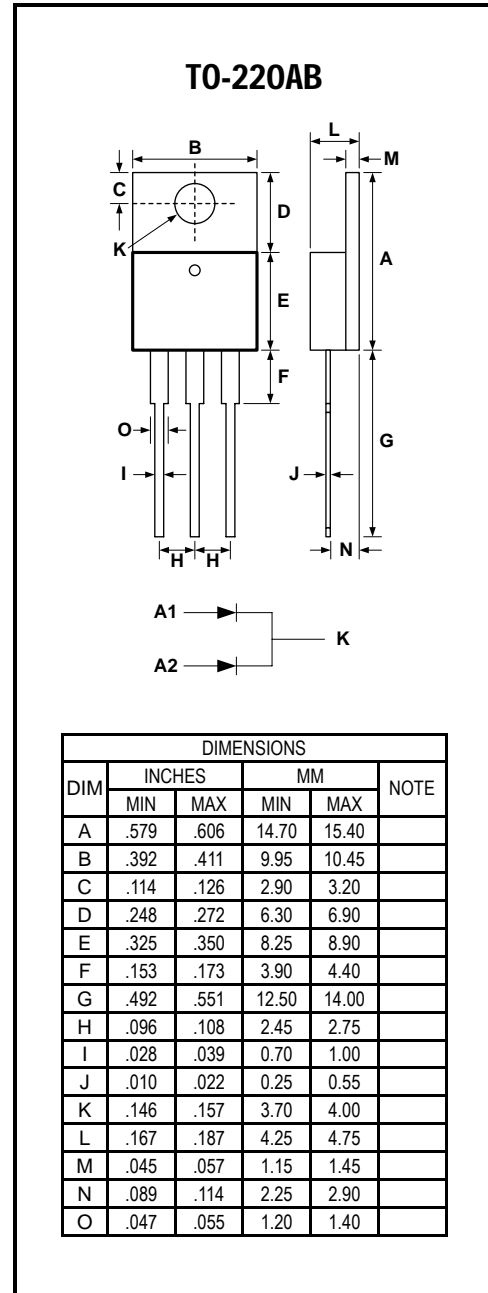
- AC/DC Switching Adaptor and TFT-LCD Power Supply
- SMPS

**Absolute maximum ratings**

| Symbol  | Ratings     | Unit | Conditions                      |
|---------|-------------|------|---------------------------------|
| IF(AV)  | 30          | A    | Average Forward Current         |
| VRRM    | 150         | V    | Repetitive Peak Reverse Voltage |
| IFSM    | 350         | A    | Peak Forward Surge Current      |
| VF(max) | 0.63        | V    | Forward Voltage Drop            |
| Tj      | -50 to +150 | °C   | Operating Temperature           |
| Tstg    | -50 to +150 | °C   | Storage Temperature             |

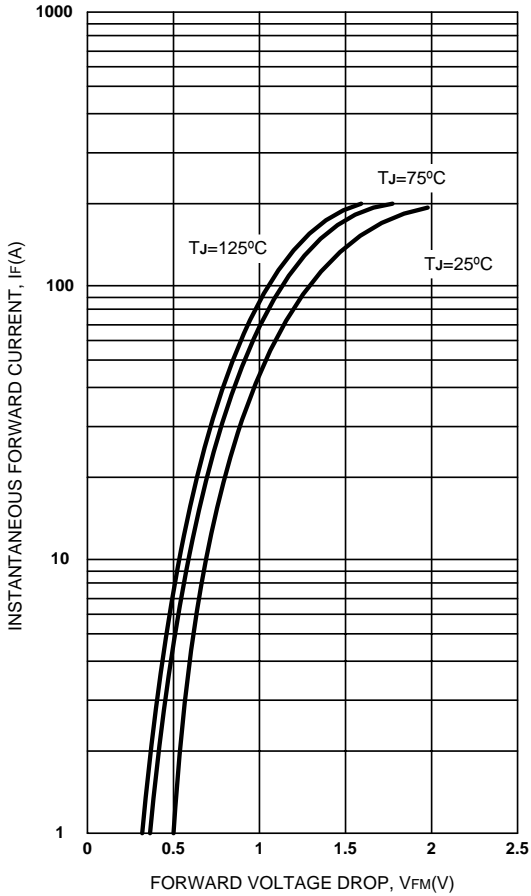
**Electrical characteristics**

| Parameters                                   | Symbol  | Ratings        | Conditions              |
|--|---------|----------------|-------------------------|
| Maximum Instantaneous Forward Voltage        | VF      | 0.80V          | IF = 15A<br>Tc = 25°C   |
|  |         | 0.63V          | Tc = 125°C              |
| Maximum Reverse Leakage Current              | IR      | 0.05mA<br>10mA | Tc = 25°C<br>Tc = 125°C |
| Maximum Voltage Rate of Change               | dv/dt   | 10,000 V/μs    | Rated Vr                |
| Typical Thermal Resistance, Junction to Case | Rθ(j-c) | 2.2 °C/W       | Per diode               |

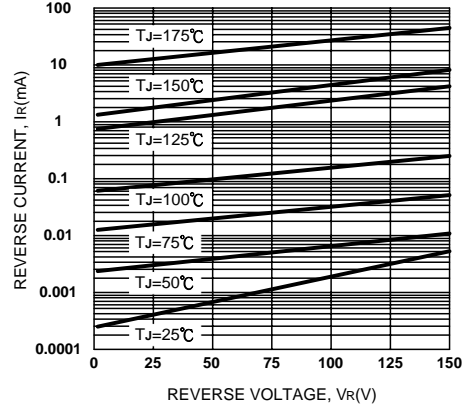


Note: Pulse Test : 380μs pulse width, 2% duty cycle

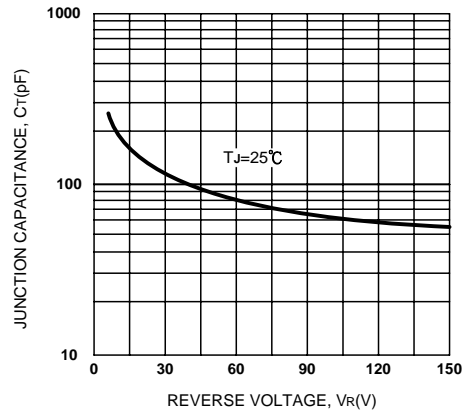
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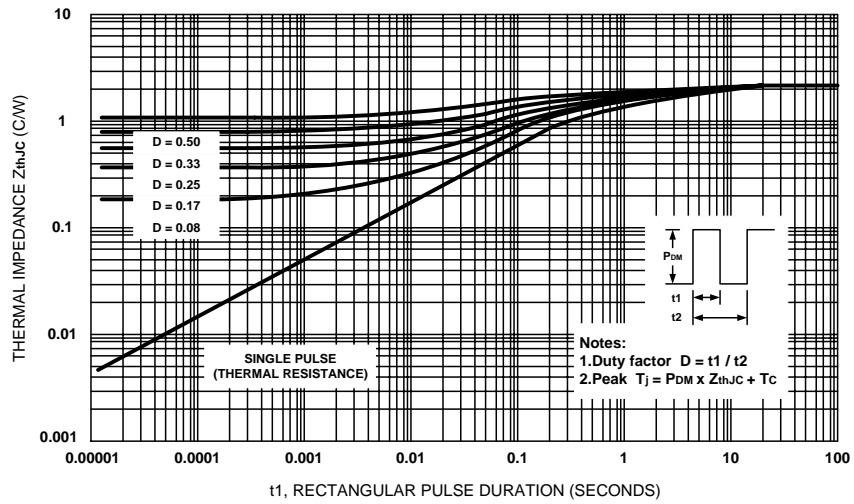
**Figure 1. Max. Forward Voltage Drop Characteristics (PerLeg)**



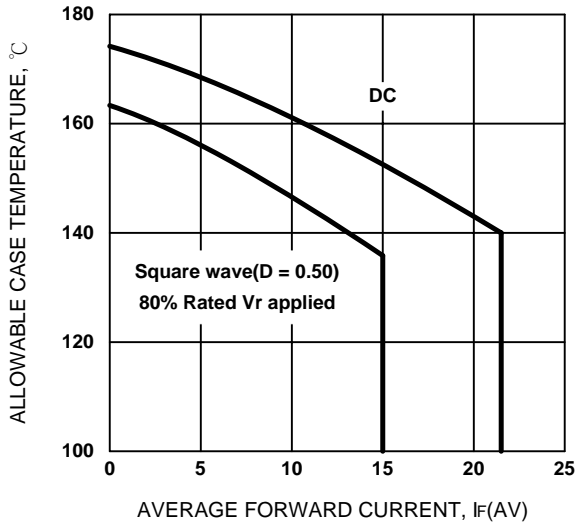
**Figure 2. Typical Values Of Reverse Current Vs. Reverse Voltage (PerLeg)**



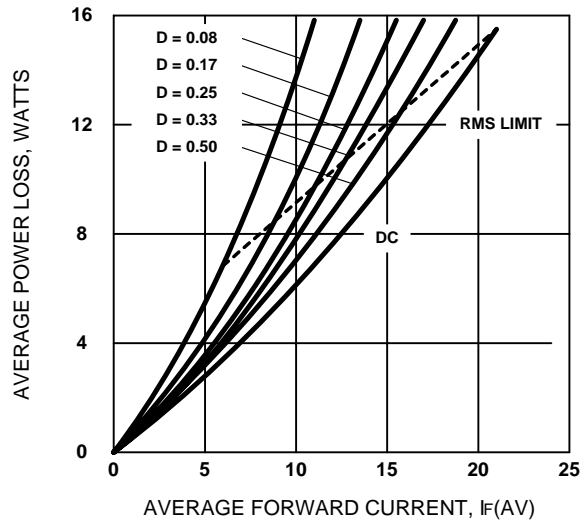
**Figure 3. Typical Junction Capacitance Vs. Reverse Voltage (PerLeg)**



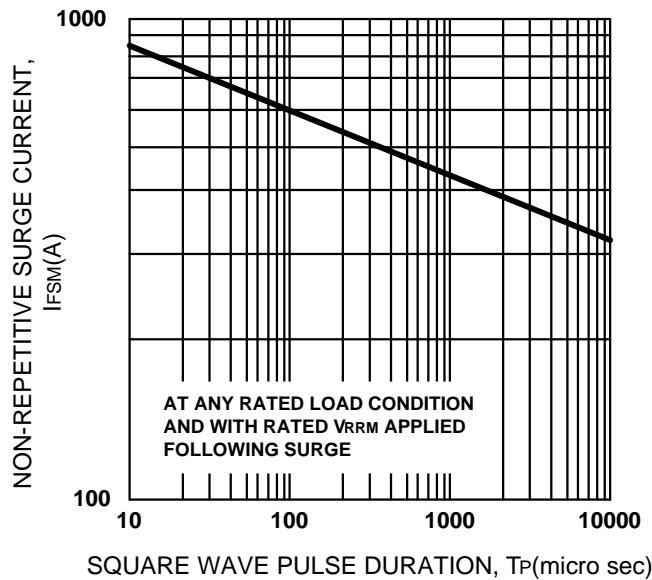
**Figure 4. Max. Thermal Impedance  $Z_{thJC}$  Characteristics (PerLeg)**



**Figure 5. Max. Allowable Case Temperature Vs. Average Forward Current (PerLeg)**



**Figure 6. Forward PowerLoss Characteristics (PerLeg)**



**Figure 7. Max. Non-Repetitive Surge Current (PerLeg)**