

D10L20U

200V 10A

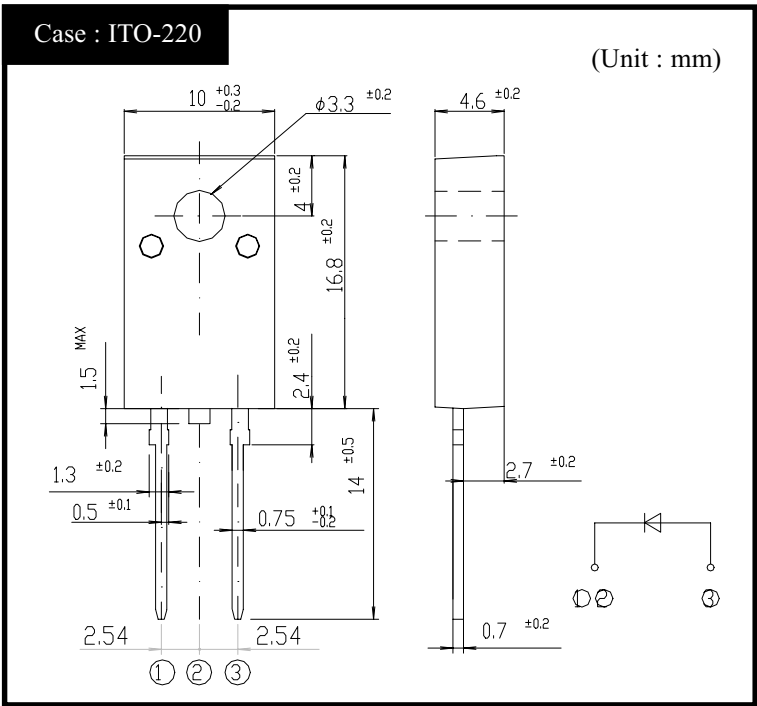
FEATURES

- Low noise
- trr35ns
- Fully Isolated Molding

APPLICATION

- Switching power supply
- Free Wheel
- Home Appliances, Office Equipment
- Telecommunication, Factory Automation

OUTLINE DIMENSIONS



RATINGS

● Absolute Maximum Ratings (If not specified Tc=25°C)

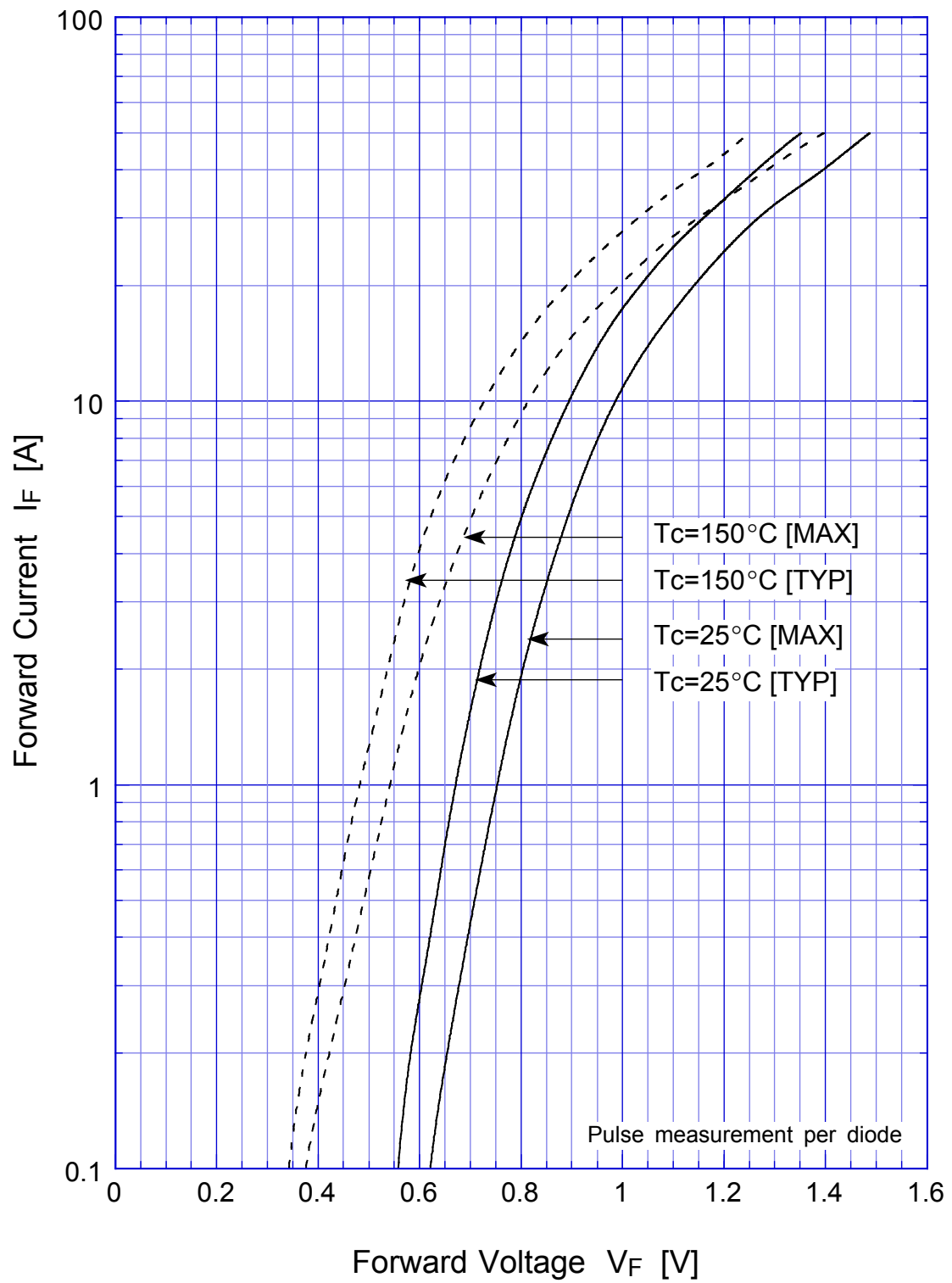
| Item                              | Symbol | Conditions                                                 | Ratings | Unit |
|-----------------------------------|--------|------------------------------------------------------------|---------|------|
| Storage Temperature               | Tstg   |                                                            | -40~150 | °C   |
| Operating Junction Temperature    | Tj     |                                                            | 150     | °C   |
| Maximum Reverse Voltage           | VRM    |                                                            | 200     | V    |
| Average Rectified Forward Current | IO     | 50Hz sine wave, R-load, Tc=111°C                           | 10      | A    |
| Peak Surge Forward Current        | IFSM   | 50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C | 120     | A    |
| Dielectric Strength               | Vdis   | Terminals to case, AC 1 minute                             | 1.5     | kV   |
| Mounting Torque                   | TOR    | (Recommended torque: 0.3N·m)                               | 0.5     | N·m  |

● Electrical Characteristics (If not specified Tc=25°C)

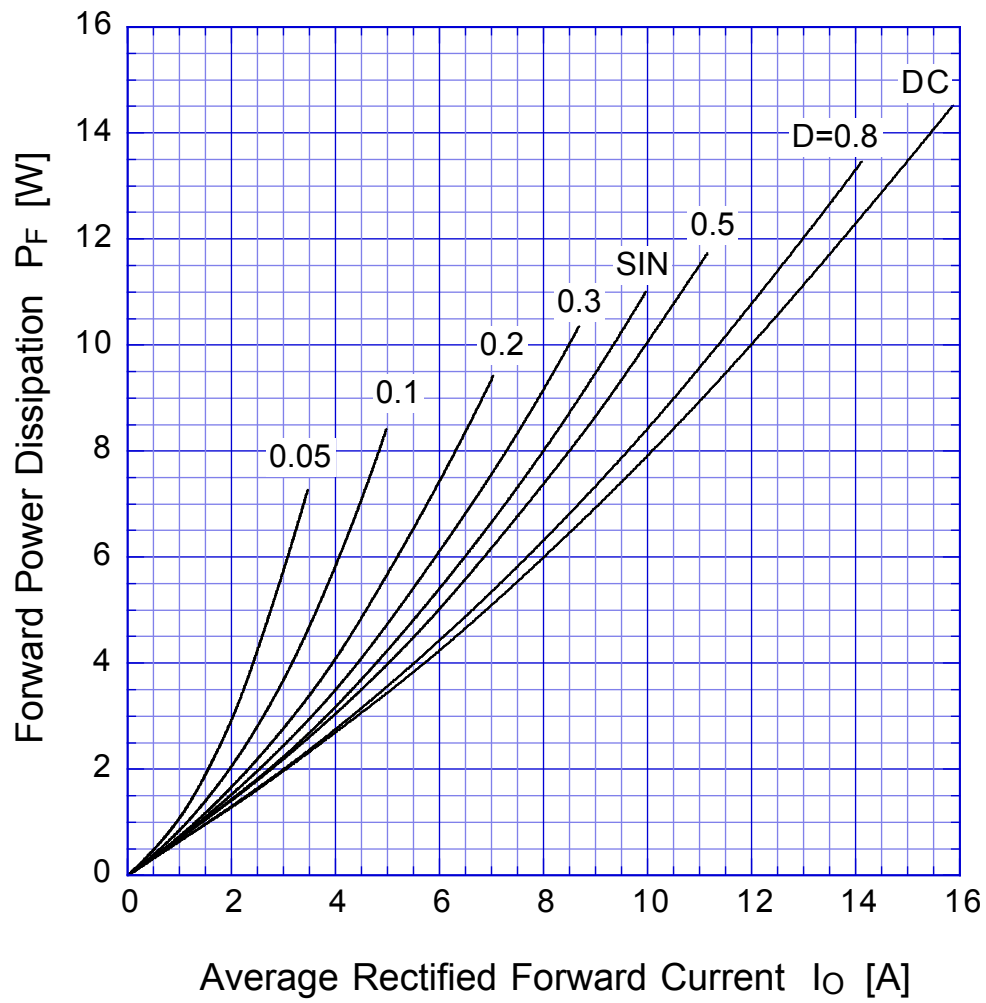
| Item                  | Symbol | Conditions                             | Ratings  | Unit |
|-----------------------|--------|----------------------------------------|----------|------|
| Forward Voltage       | VF     | IF=10A, Pulse measurement              | Max 0.98 | V    |
| Reverse Current       | IR     | VR=200V, Pulse measurement             | Max 10   | μA   |
| Reverse Recovery Time | trr    | IF=0.5A, IR=1A                         | Max 35   | ns   |
| Thermal Resistance    | θjc    | junction to case                       | Max 3.5  | °C/W |
|                       | θjf    | junction to heatsink (reference value) | Max 5.0  |      |

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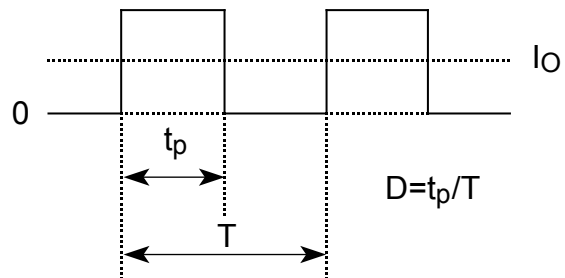
Forward Voltage



## D10L20U Forward Power Dissipation

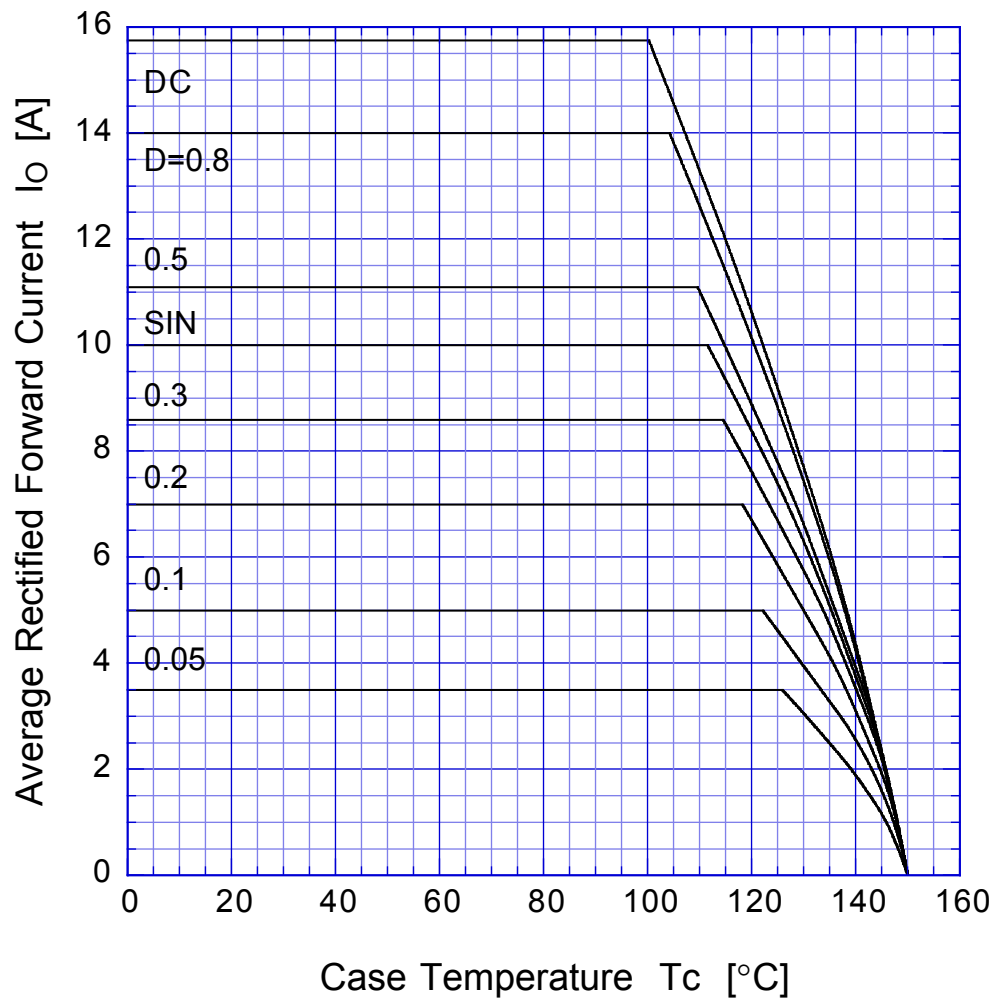


$T_j = T_{jmax}$

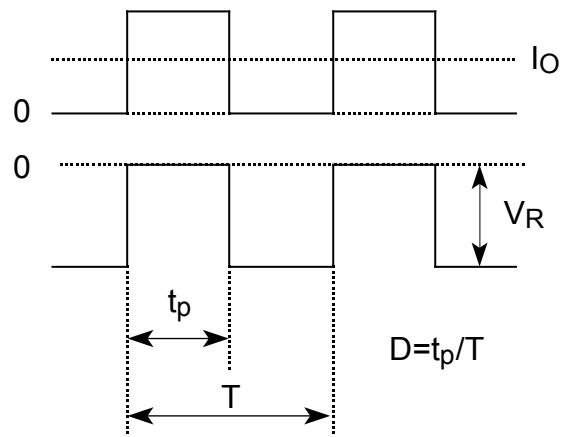


# D10L20U

## Derating Curve

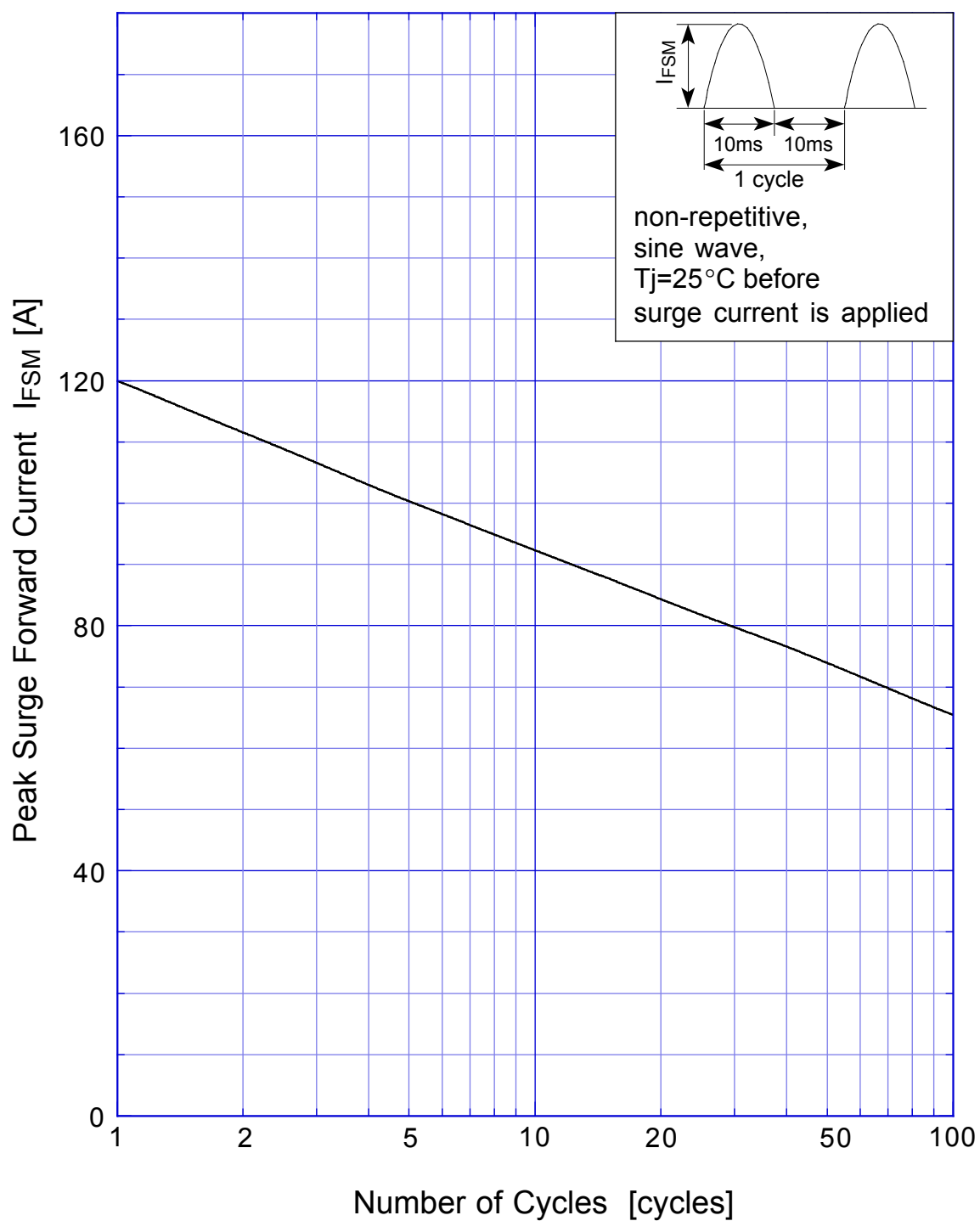


$$V_R = V_{RM}$$



# D10L20U

## Peak Surge Forward Capability



# D10L20U Junction Capacitance

