

D1NL20U

200V 1A

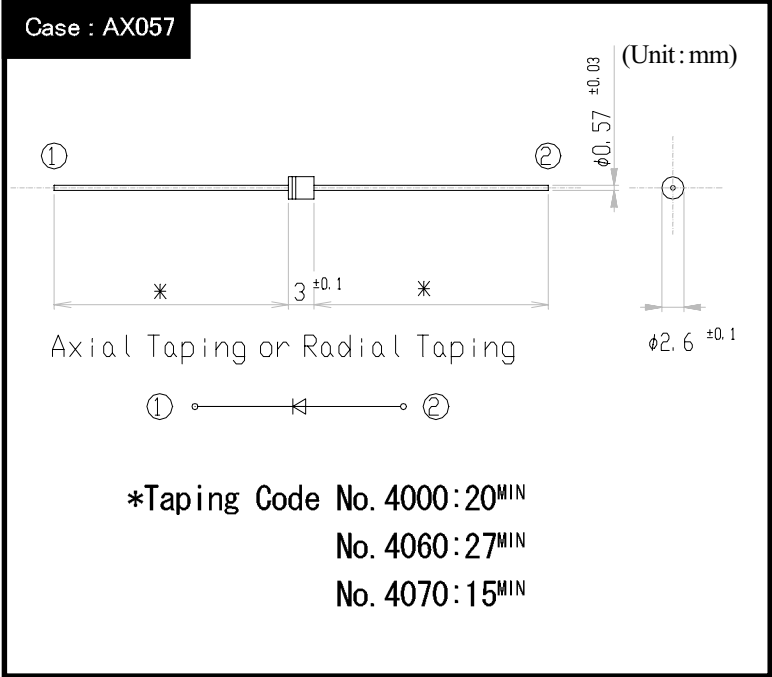
FEATURES

- Low noise
- trr35ns
- 5 mm pitch mounting applicable

APPLICATION

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

OUTLINE DIMENSIONS



RATINGS

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

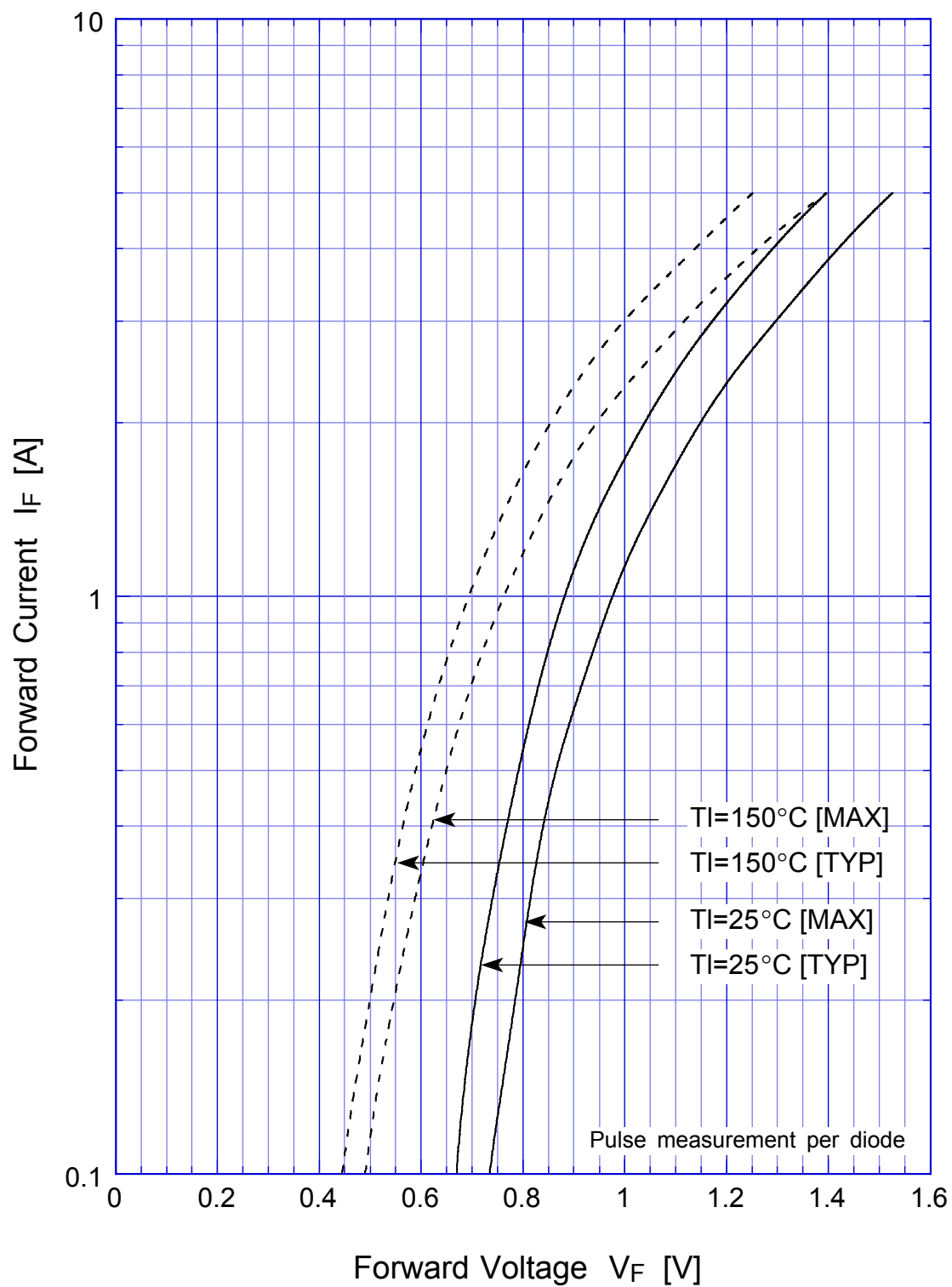
| Item                              | Symbol           | Conditions                                                 | Ratings | Unit |
|-----------------------------------|------------------|------------------------------------------------------------|---------|------|
| Storage Temperature               | T <sub>stg</sub> |                                                            | -55~150 | °C   |
| Operating Junction Temperature    | T <sub>j</sub>   |                                                            | 150     | °C   |
| Maximum Reverse Voltage           | V <sub>RM</sub>  |                                                            | 200     | V    |
| Average Rectified Forward Current | I <sub>O</sub>   | 50Hz sine wave, R-load, Ta=25°C                            | 1       | A    |
| Peak Surge Forward Current        | I <sub>FSM</sub> | 50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C | 25      | A    |

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

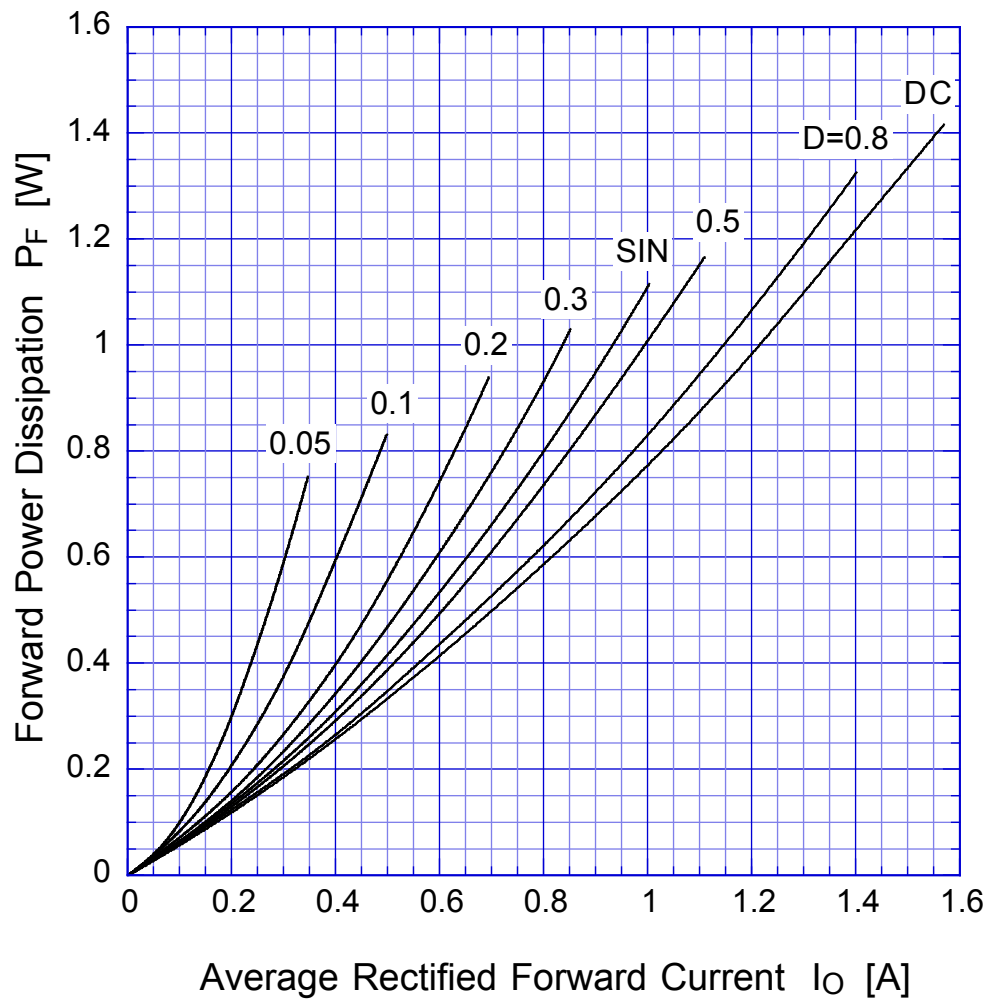
| Item                  | Symbol          | Conditions                                          | Ratings  | Unit |
|-----------------------|-----------------|-----------------------------------------------------|----------|------|
| Forward Voltage       | V <sub>F</sub>  | I <sub>F</sub> =1A, Pulse measurement               | Max.0.98 | V    |
| Reverse Current       | I <sub>R</sub>  | V <sub>R</sub> =V <sub>RM</sub> , Pulse measurement | Max.10   | μA   |
| Reverse Recovery Time | trr             | I <sub>F</sub> =0.5A, I <sub>R</sub> =1A            | Max.35   | ns   |
| Thermal Resistance    | θ <sub>jl</sub> | junction to lead                                    | Max.10   | °C/W |
|                       | θ <sub>ja</sub> | junction to ambient, On P.C.B. Lead length=5mm      | Max.113  |      |

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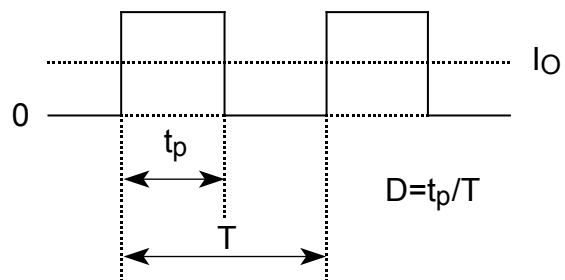
Forward Voltage



## D1NL20U Forward Power Dissipation

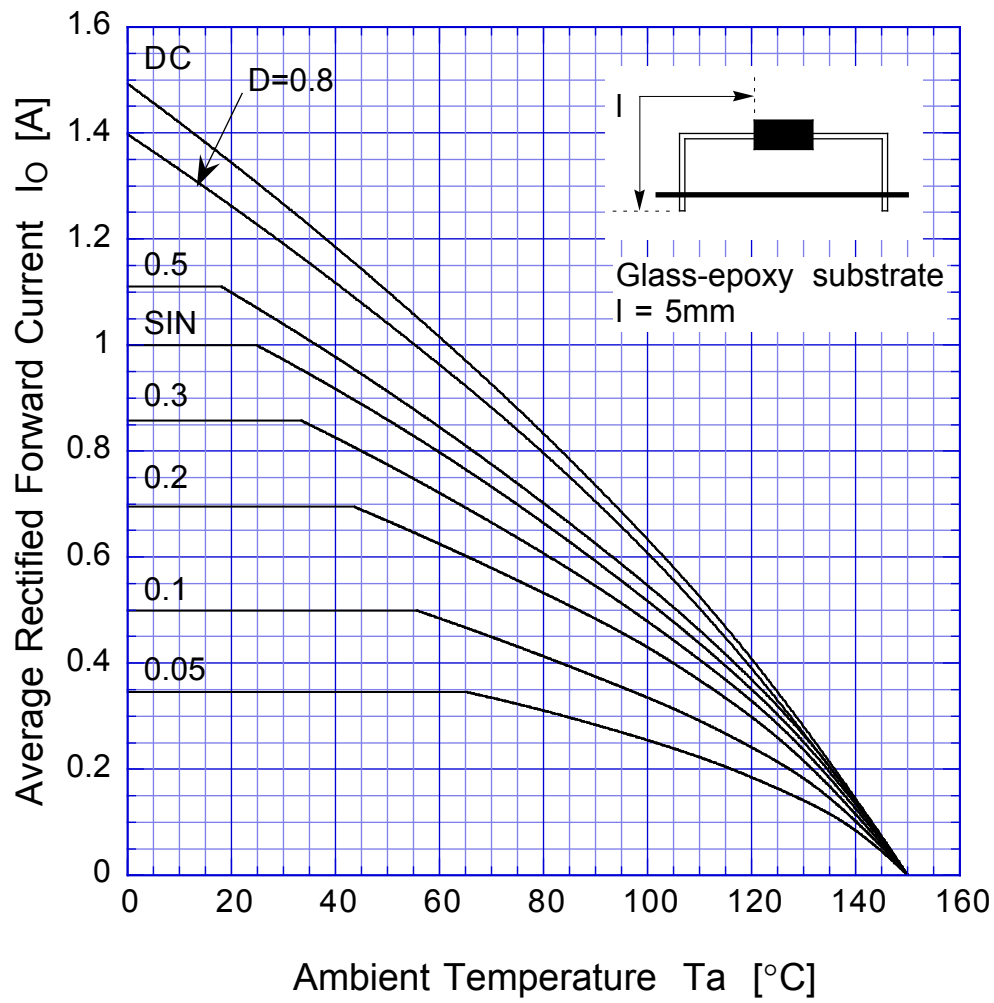


$T_j = 150^\circ\text{C}$

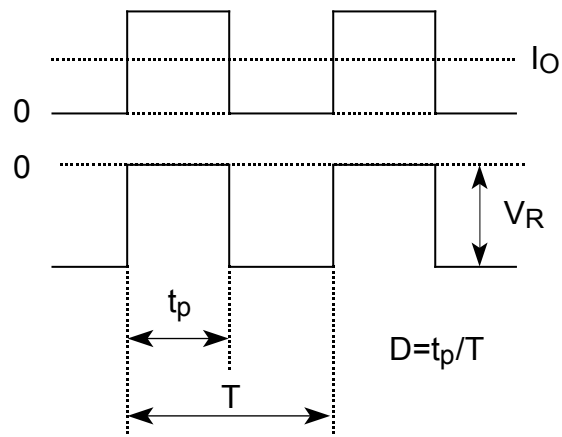


# D1NL20U

## Derating Curve

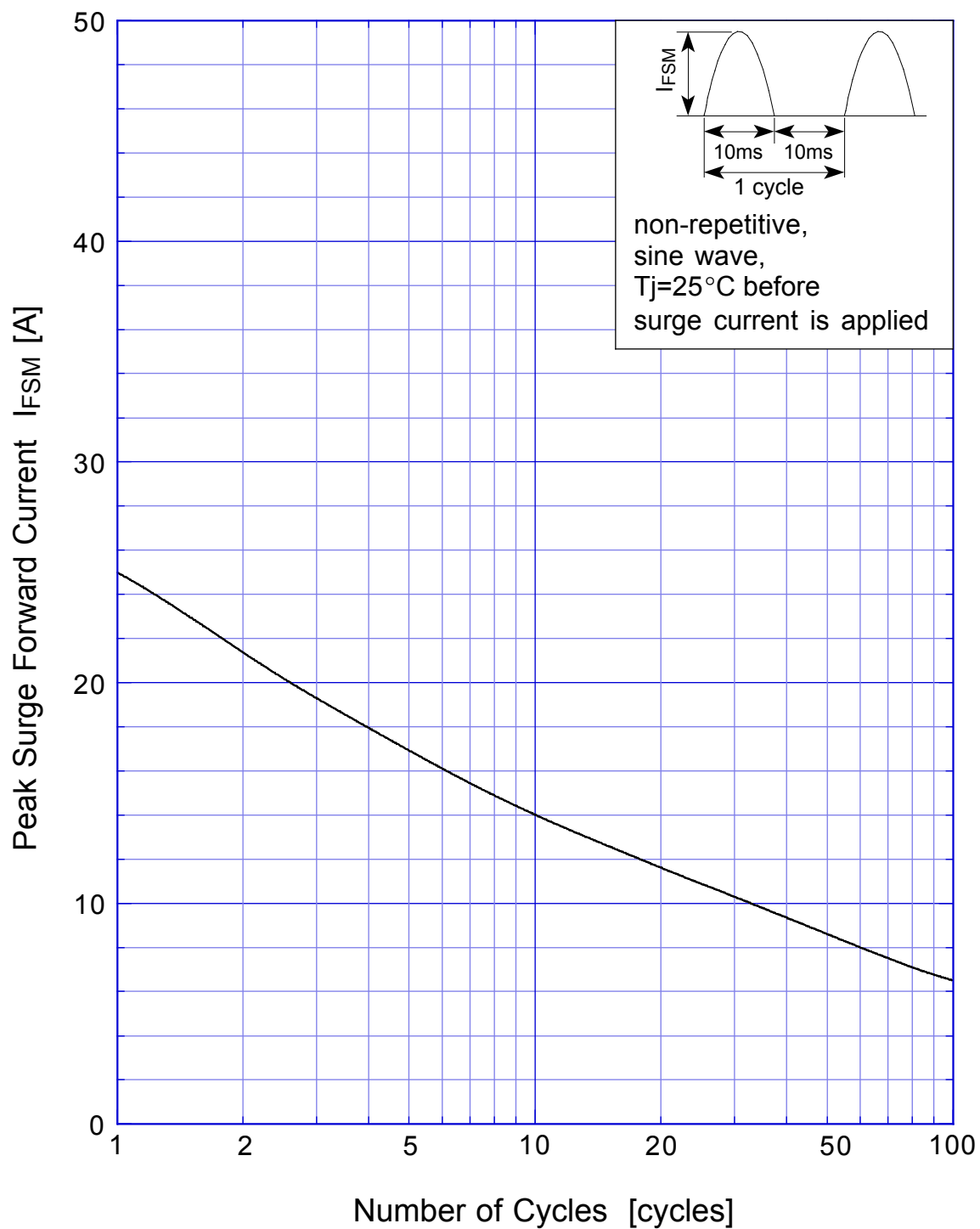


$V_R = 200\text{V}$



# D1NL20U

## Peak Surge Forward Capability



# D1NL20U Junction Capacitance

