

SHINDENGEN

Super Fast Recovery Rectifiers

Single

D1NL20U

200V 1A

FEATURES

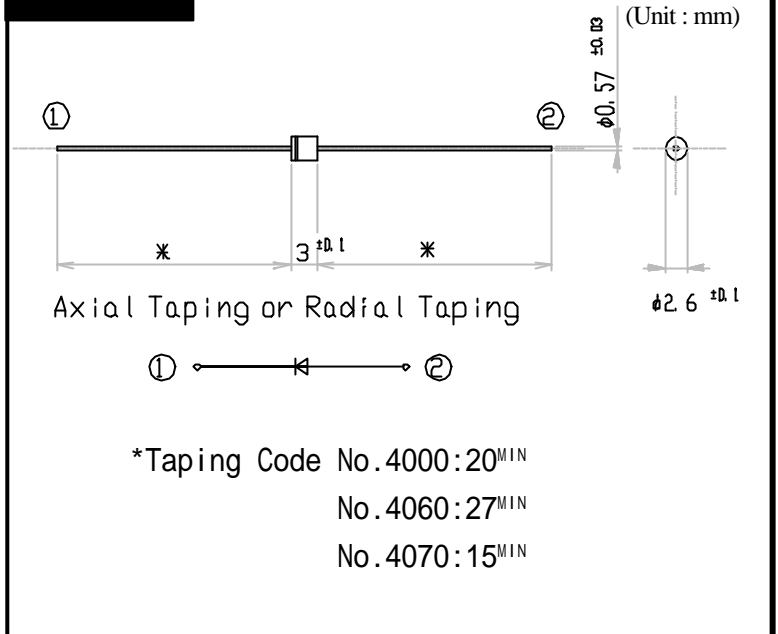
- Low noise
- trr35ns
- 5 mm pitch mounting applicable

APPLICATION

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

OUTLINE DIMENSIONS

Case : AX057



RATINGS

Absolute Maximum Ratings (If not specified Tl=25)

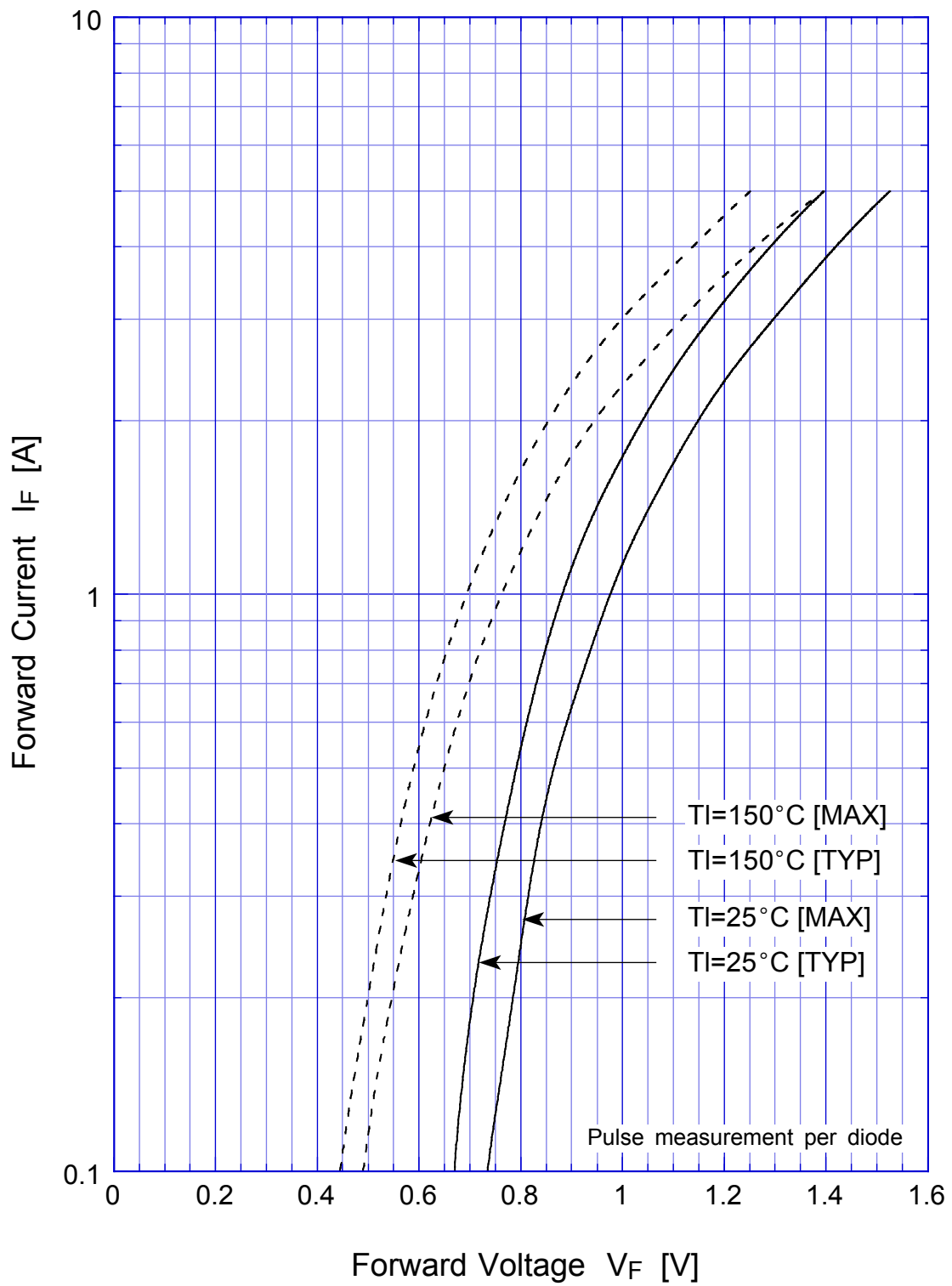
| Item | Symbol | Conditions | Ratings | Unit |
|-----------------------------------|------------------|--|-----------|------|
| Storage Temperature | Tstg | | -55 ~ 150 | |
| Operating Junction Temperature | Tj | | 150 | |
| Maximum Reverse Voltage | V _{RM} | | 200 | V |
| Average Rectified Forward Current | I _O | 50Hz sine wave, R-load, Ta=25 | 1 | A |
| Peak Surge Forward Current | I _{FSM} | 50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25 | 25 | A |

Electrical Characteristics (If not specified Tl=25)

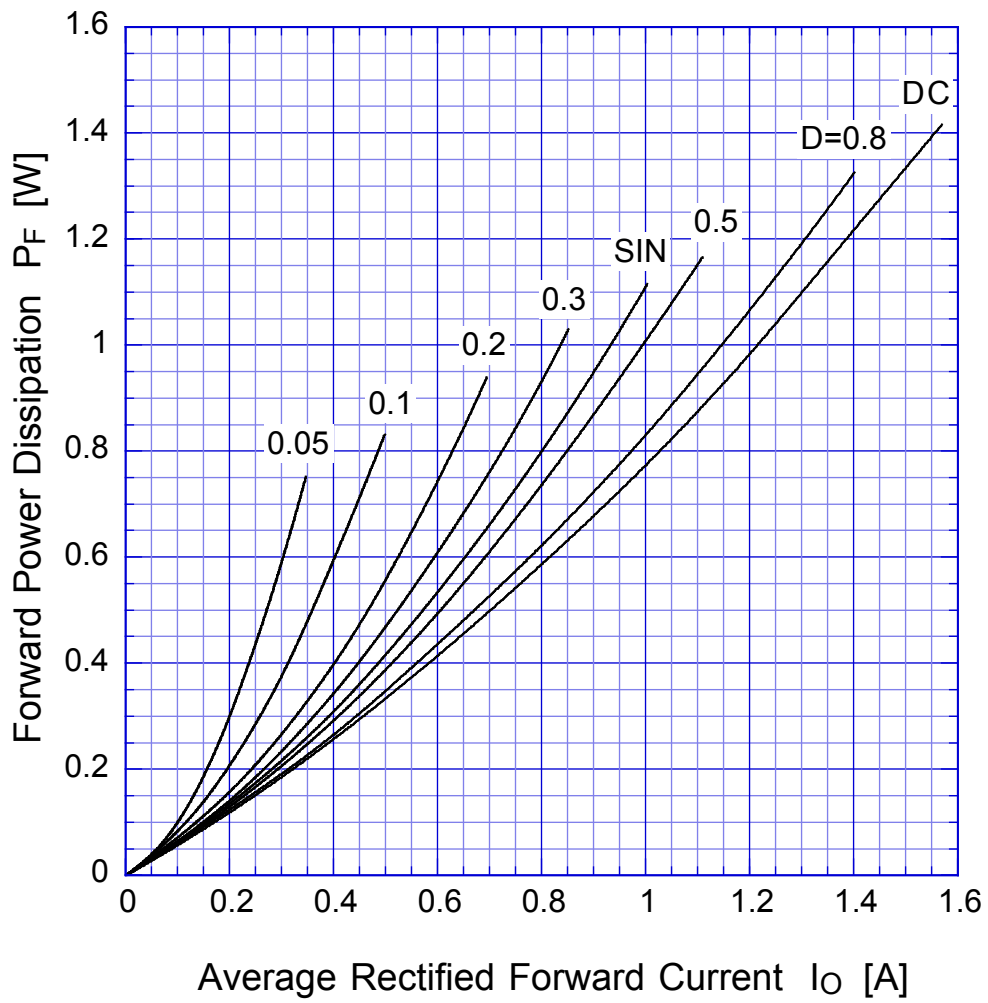
| Item | Symbol | Conditions | Ratings | Unit |
|-----------------------|----------------|---|----------|------|
| Forward Voltage | V _F | I _F =1A, Pulse measurement | Max.0.98 | V |
| Reverse Current | I _R | V _R =V _{RM} , Pulse measurement | Max.10 | μA |
| Reverse Recovery Time | trr | I _F =0.5A, I _R =1A | Max.35 | ns |
| Thermal Resistance | j-l | junction to lead | Max.10 | /W |
| | ja | junction to ambient, On P.C.B. Lead length=5mm | Max.113 | |

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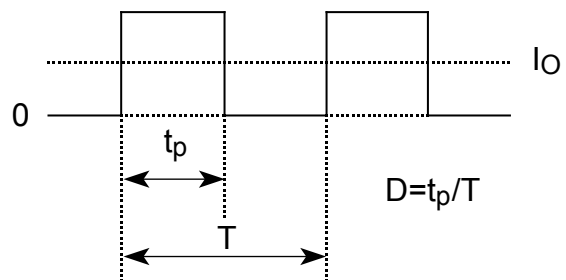
Forward Voltage



D1NL20U Forward Power Dissipation

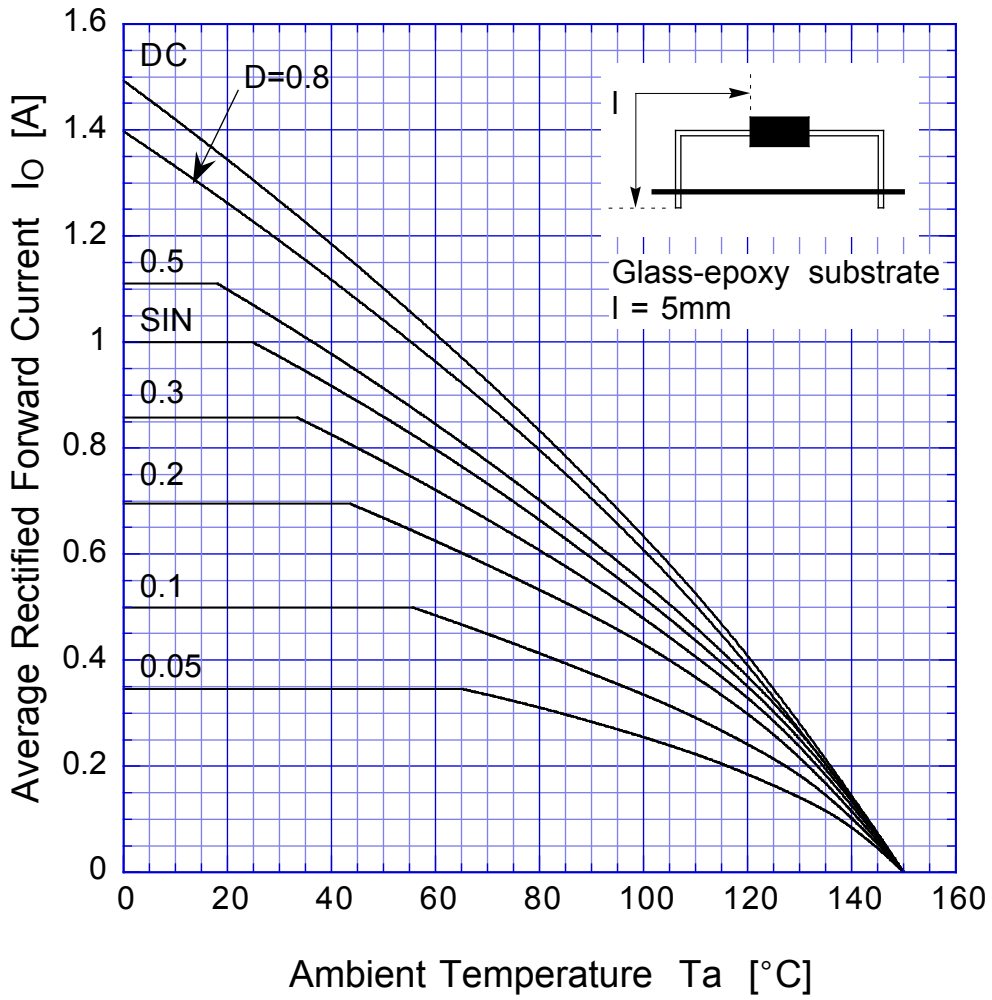


$T_j = 150^\circ\text{C}$

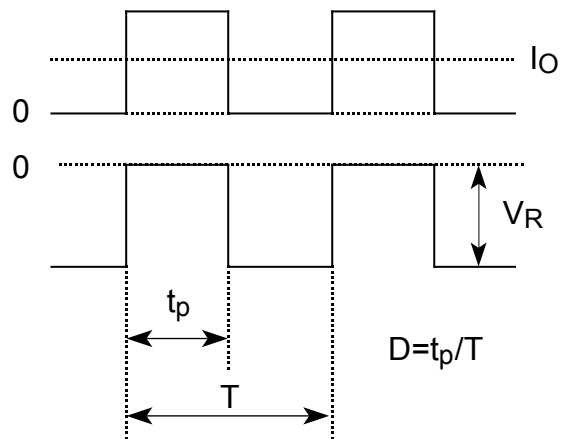


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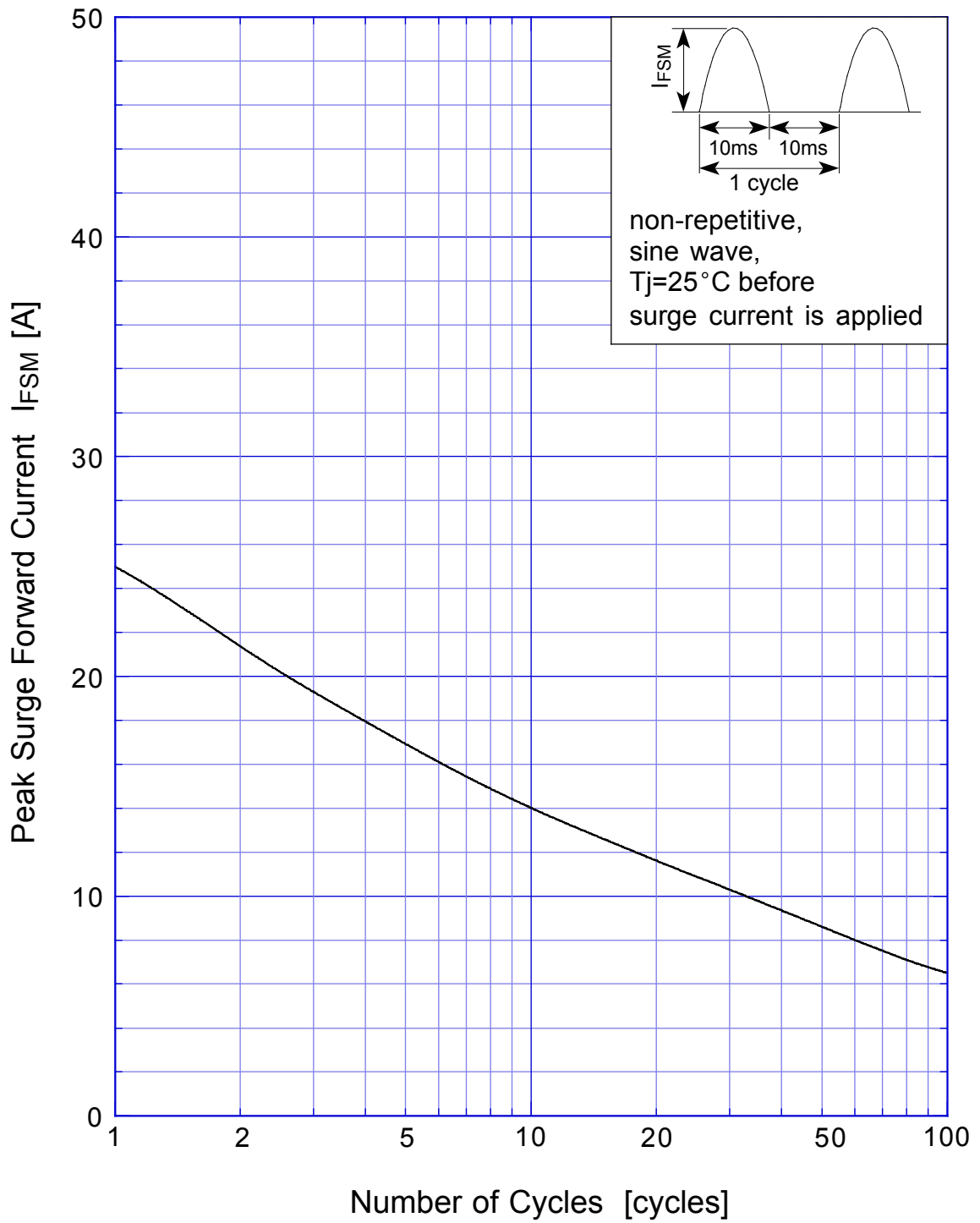
Derating Curve



$V_R = 200\text{V}$



D1NL20U Peak Surge Forward Capability



D1NL20U Junction Capacitance

