

# SHINDENGEN

## Super Fast Recovery Rectifiers

Single

# D1NL20U

## 200V 1A

### FEATURES

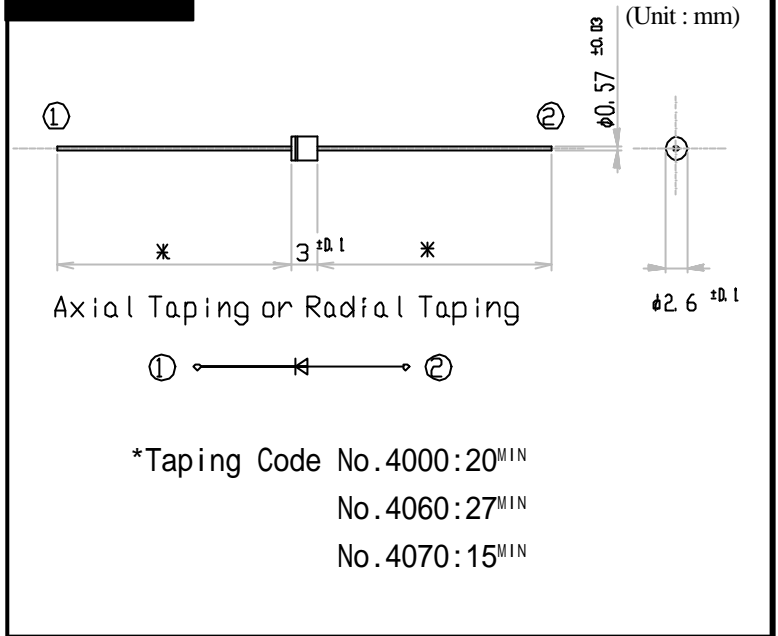
- Low noise
- trr35ns
- 5 mm pitch mounting applicable

### 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 )

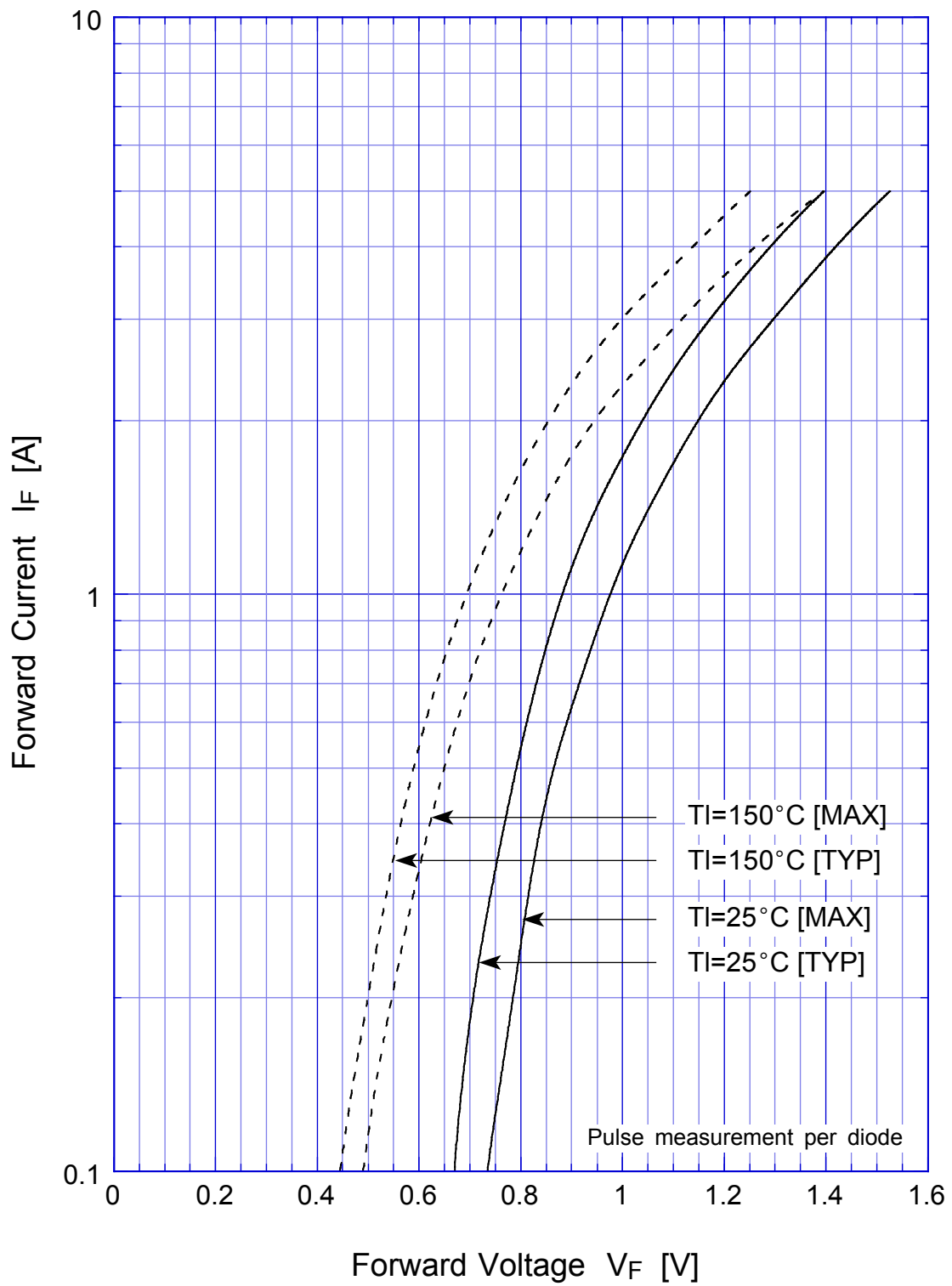
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55 ~ 150	
Operating Junction Temperature	Tj		150	
Maximum Reverse Voltage	V <sub>RM</sub>		200	V
Average Rectified Forward Current	I <sub>O</sub>	50Hz sine wave, R-load, Ta=25	1	A
Peak Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave,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

Electrical Characteristics (If not specified Tl=25 )

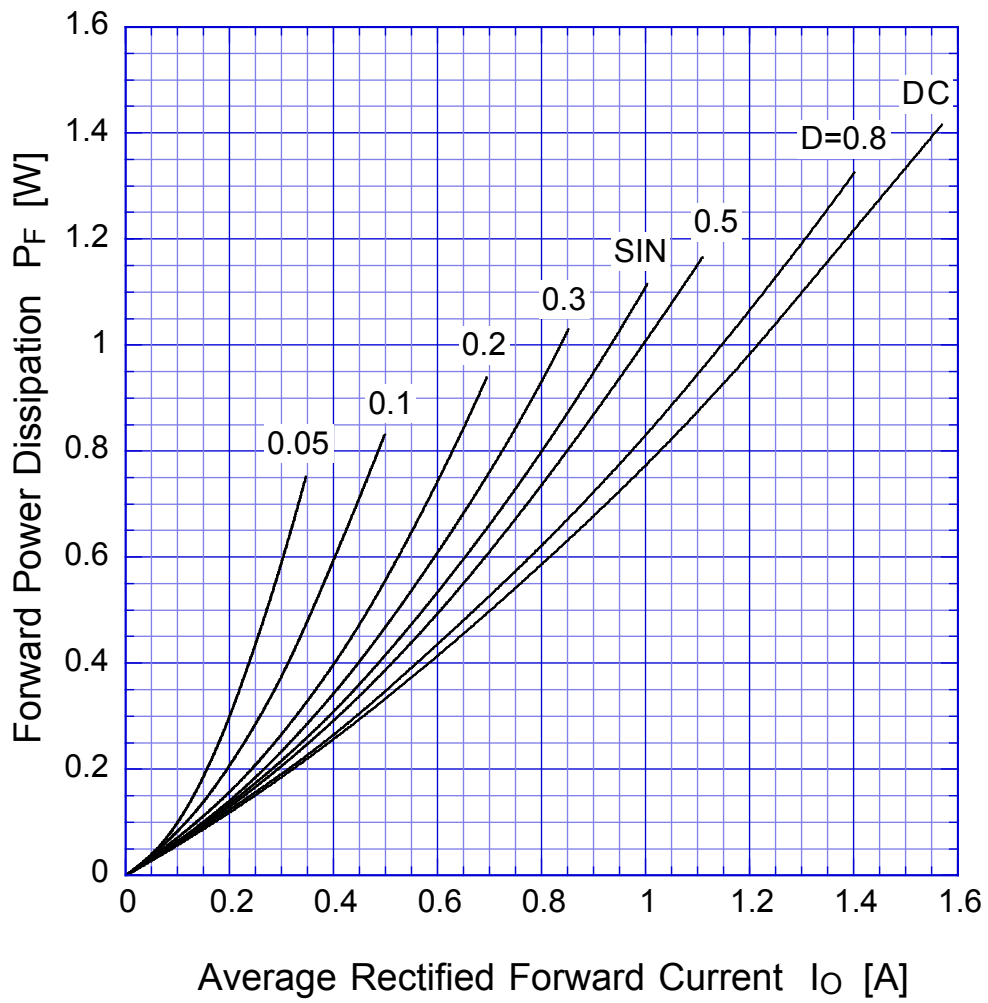
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =1A, Pulse measurement	Max.0.98	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =V <sub>RM</sub> , Pulse measurement	Max.10	μA
Reverse Recovery Time	trr	I <sub>F</sub> =0.5A, I <sub>R</sub> =1A	Max.35	ns
Thermal Resistance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

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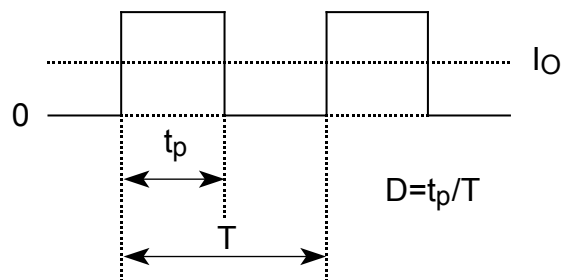
## Forward Voltage



# D1NL20U Forward Power Dissipation

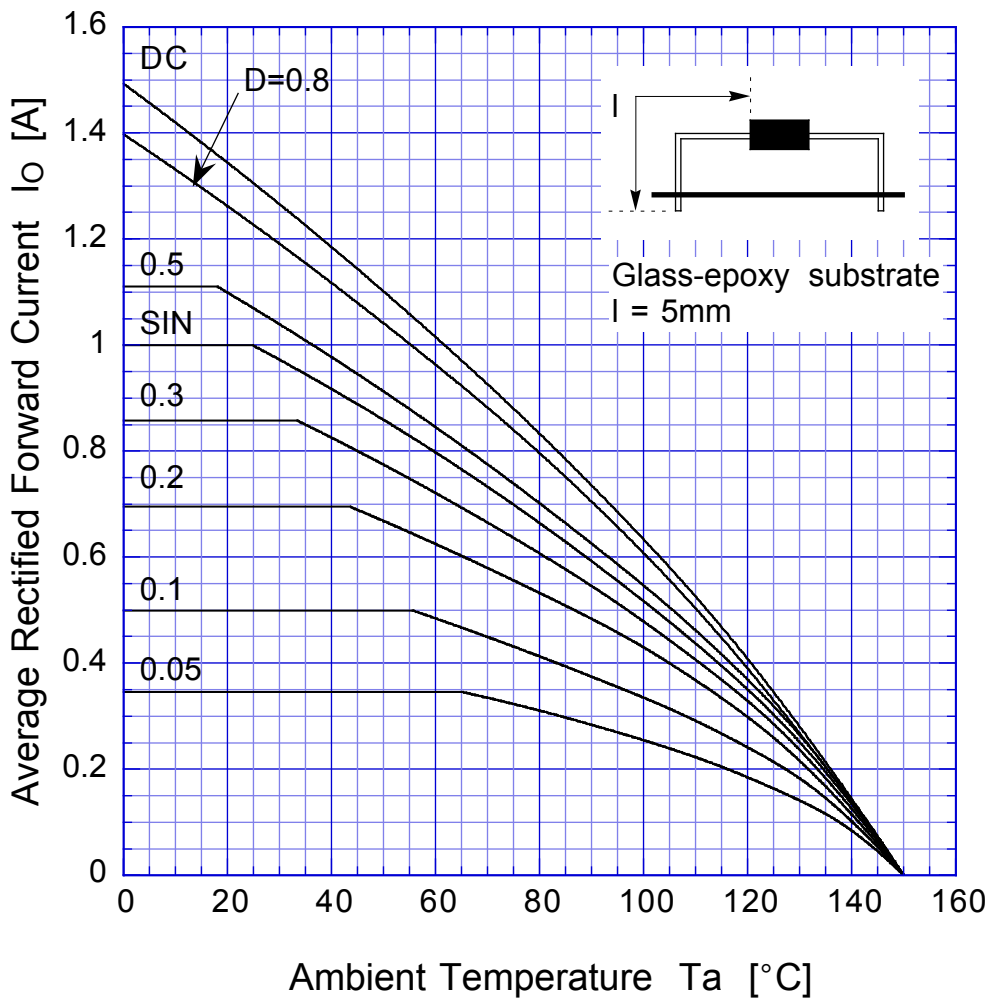


$T_j = 150^\circ\text{C}$

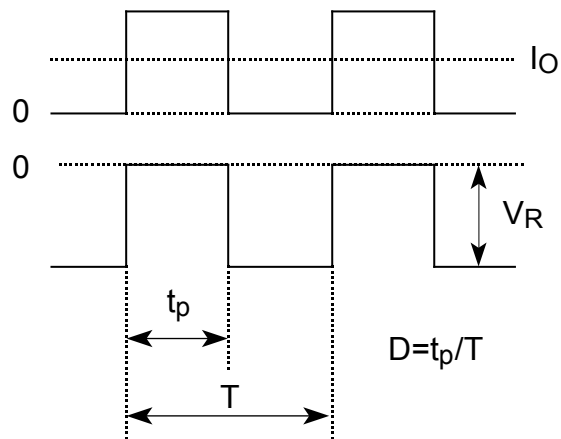


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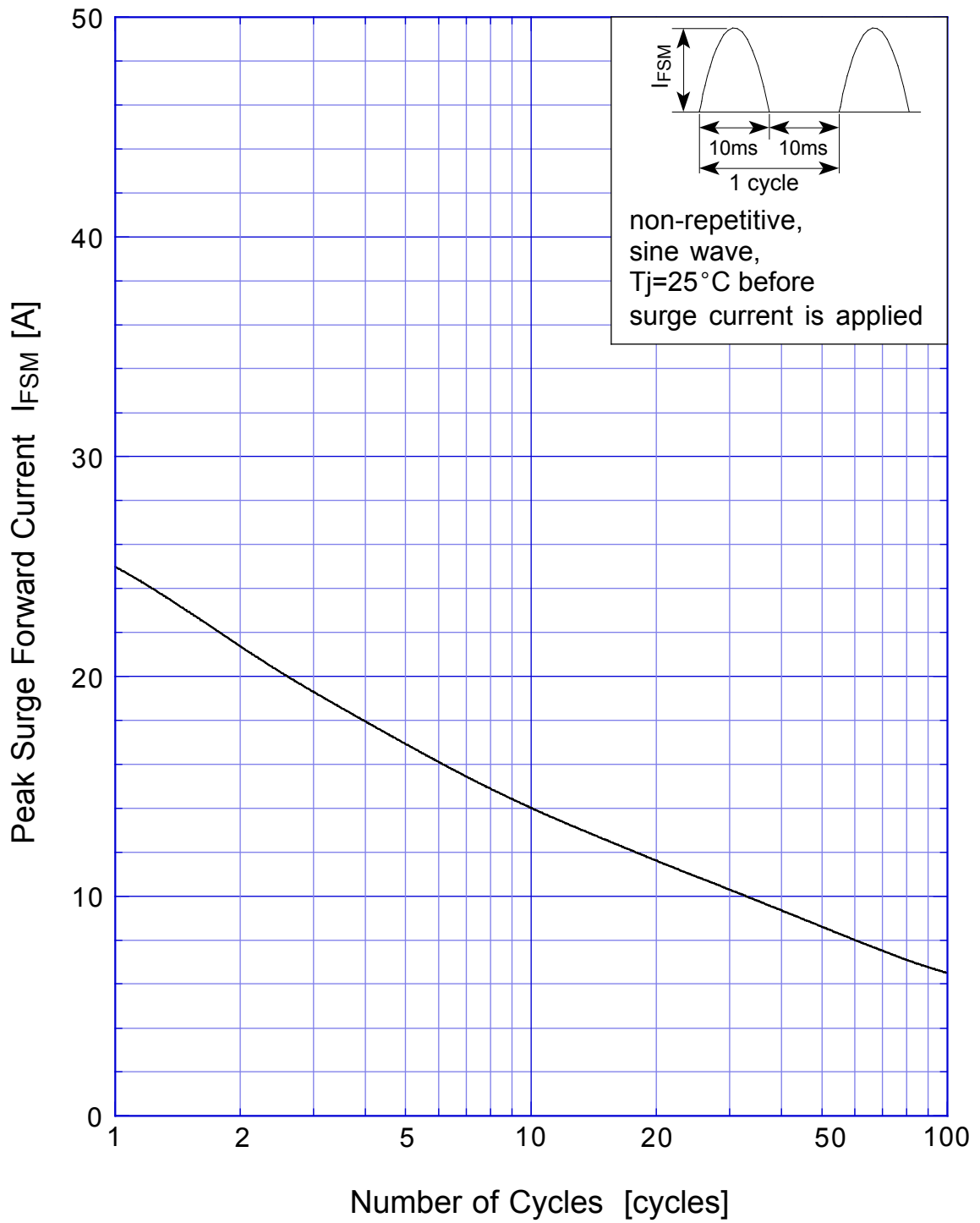
# Derating Curve



$V_R = 200\text{V}$



# D1NL20U Peak Surge Forward Capability



# D1NL20U Junction Capacitance

