

# SHINDENGEN

## Super Fast Recovery Rectifiers

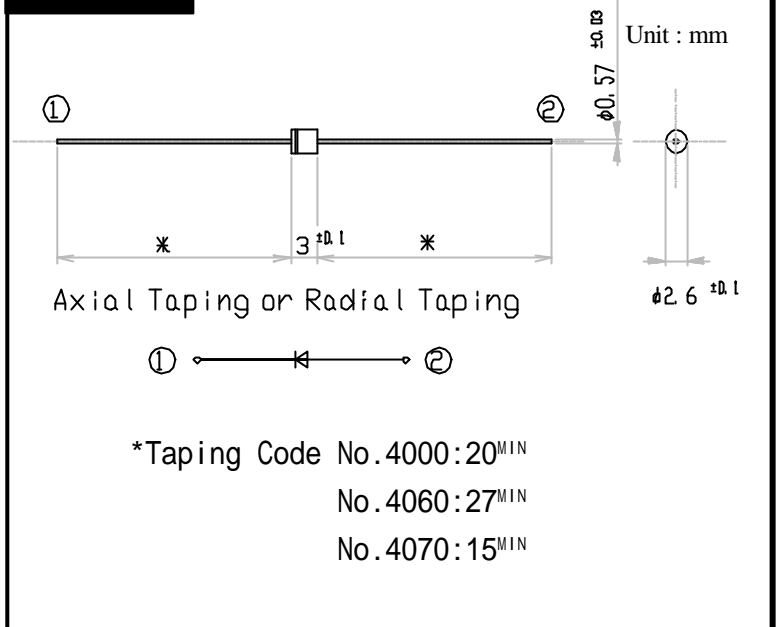
Single

# D1NF60

## 600V 0.8A

### OUTLINE DIMENSIONS

Case : AX-057



### RATINGS

Absolute Maximum Ratings (If not specified Tl=25 )

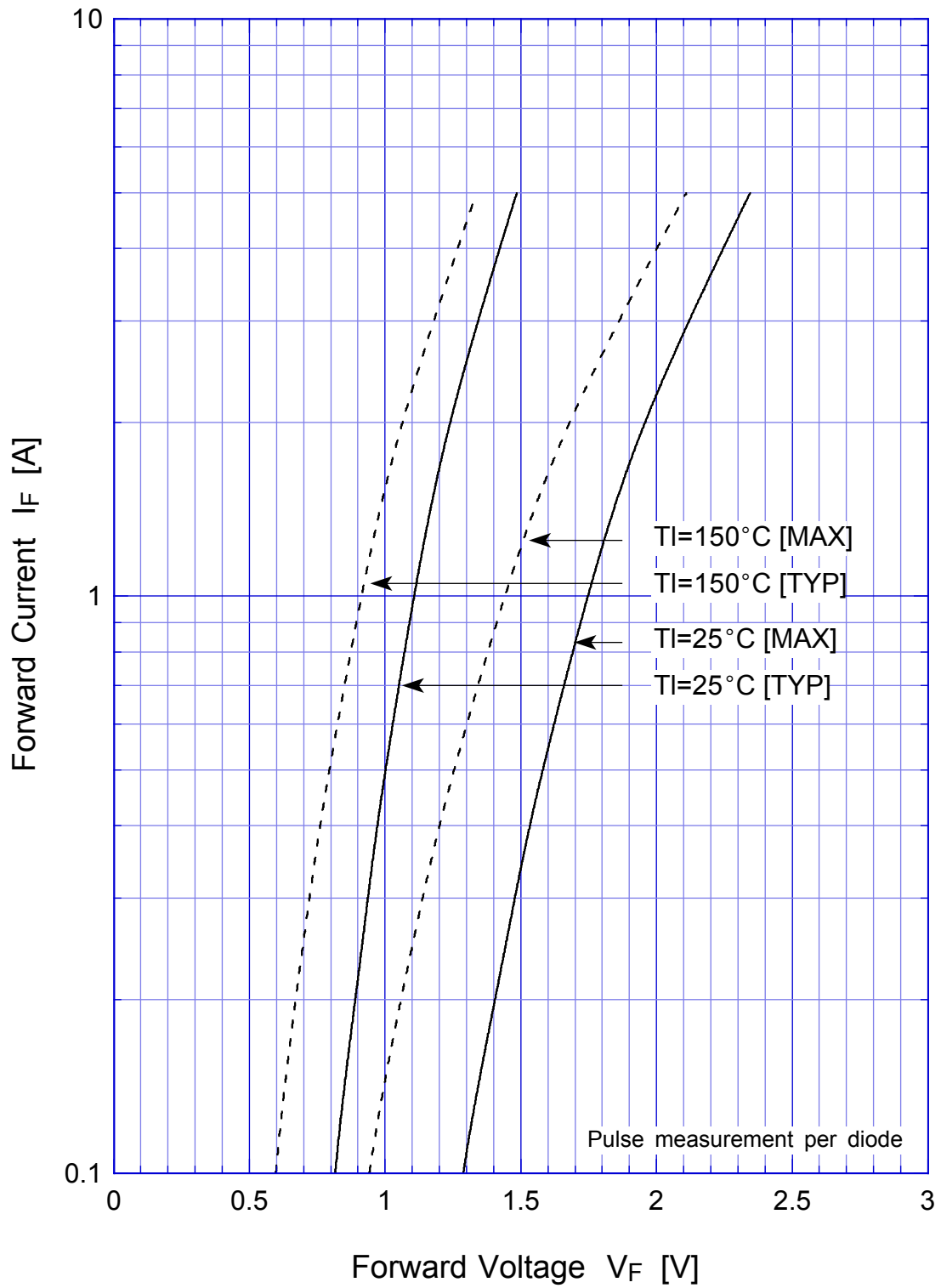
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55 ~ 150	
Operating Junction Temperature	Tj		150	
Peak Reverse Voltage	V <sub>RM</sub>		600	V
Average Rectified Forward Current	I <sub>o</sub>	50Hz sine wave, resistance load, Ta=25	0.8	A
Peak Surge Forward Current	I <sub>FSM</sub>	Sine wave 50Hz, Non-repetitive 1 cycle peak value, Tj=25	50	A

Electrical Characteristics (If not specified Tl=25 )

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =0.8A, Pulse measurement	Max.1.3	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =600V, Pulse measurement	Max.10	μA
Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> =0.5A, I <sub>R</sub> =1A	Max.400	nS
Junction Capacitance	C <sub>j</sub>	f=1MHz, V <sub>R</sub> =10V	Typ.7	pF
Thermal Resistance	j-l	junction to lead	Max.10	/W
	ja	junction to ambient	Max.113	

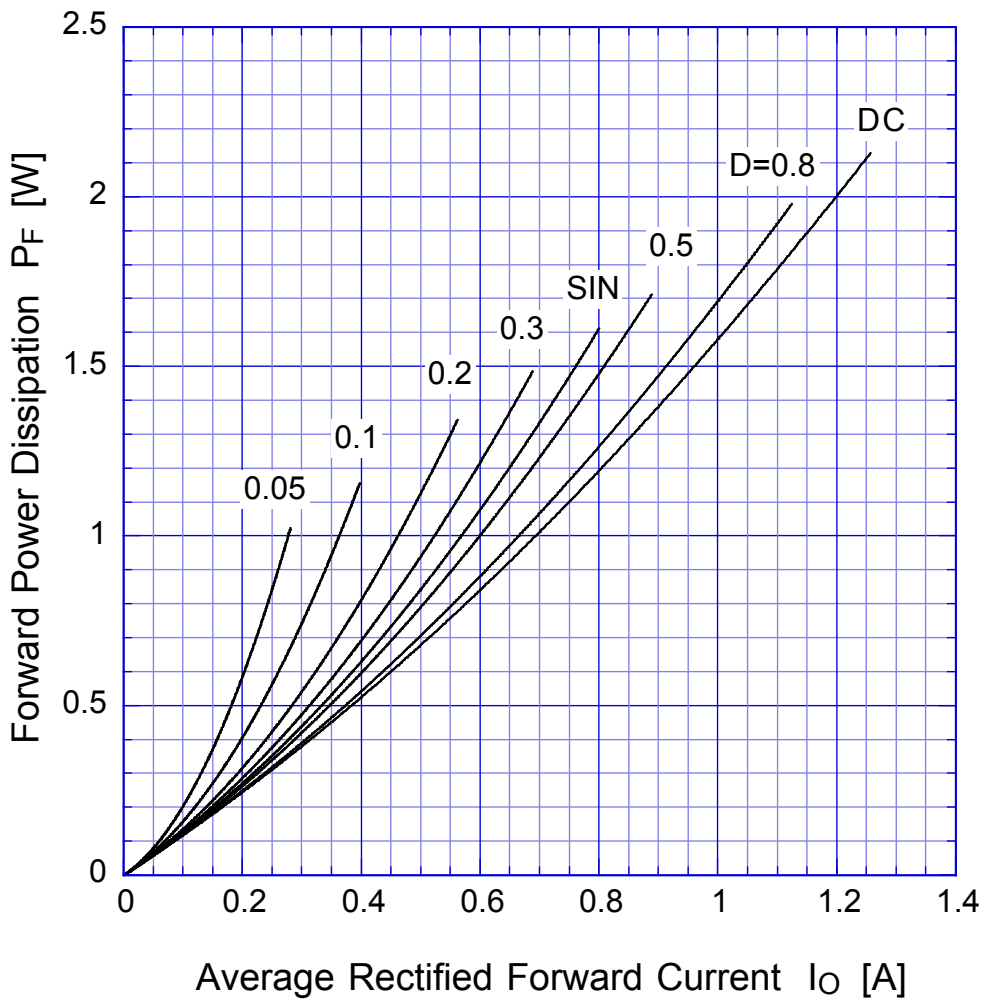
# D1NF60

## Forward Voltage

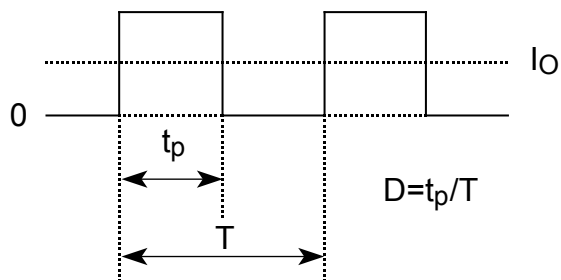


# D1NF60

## Forward Power Dissipation

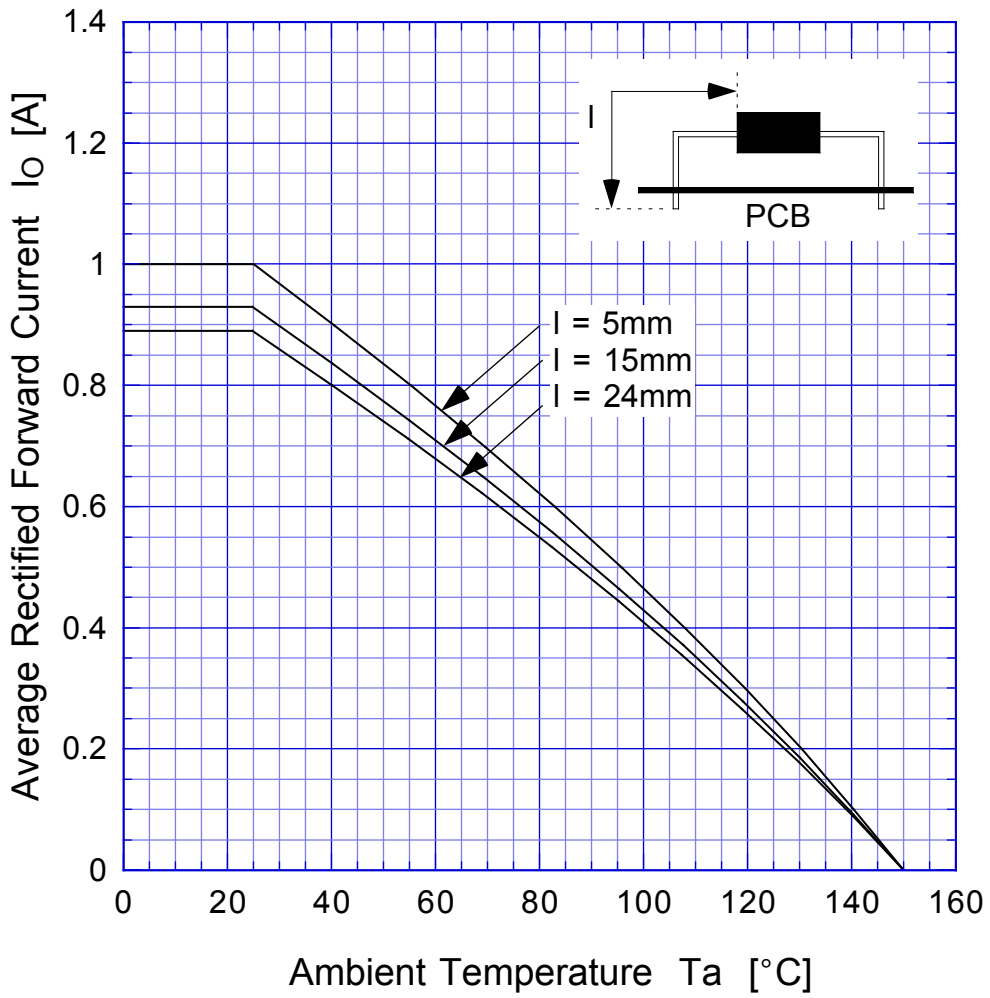


$T_j = 150^\circ\text{C}$

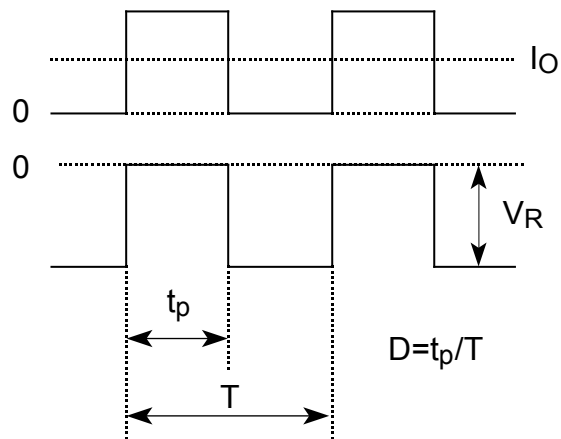


# D1NF60

# Derating Curve

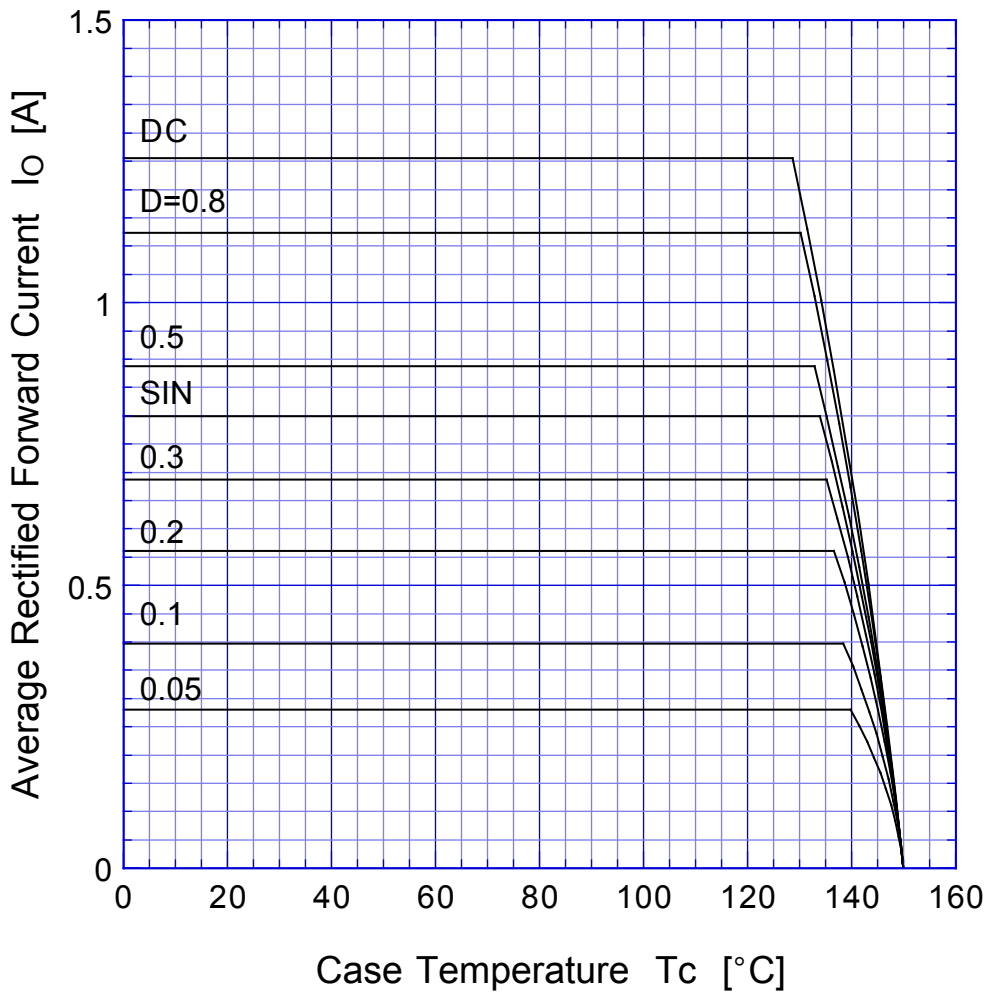


$$V_R = V_{RM}$$



# D1NF60

# Derating Curve

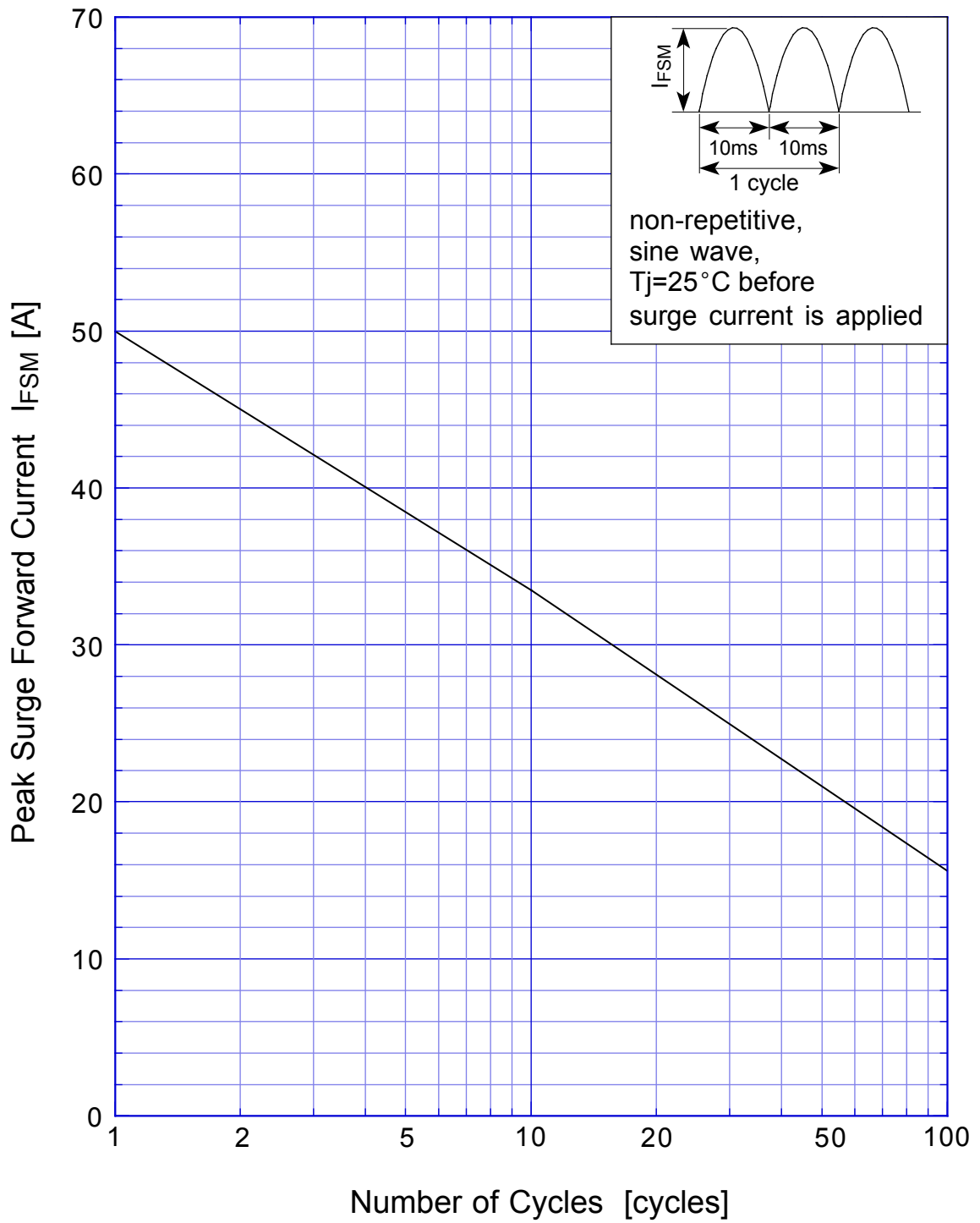


$V_R = 300V$



# D1NF60

## Peak Surge Forward Capability



# D1NF60 Junction Capacitance

