

# SHINDENGEN

## Super Fast Recovery Rectifiers

Single

# D5L60

## 600V 5A

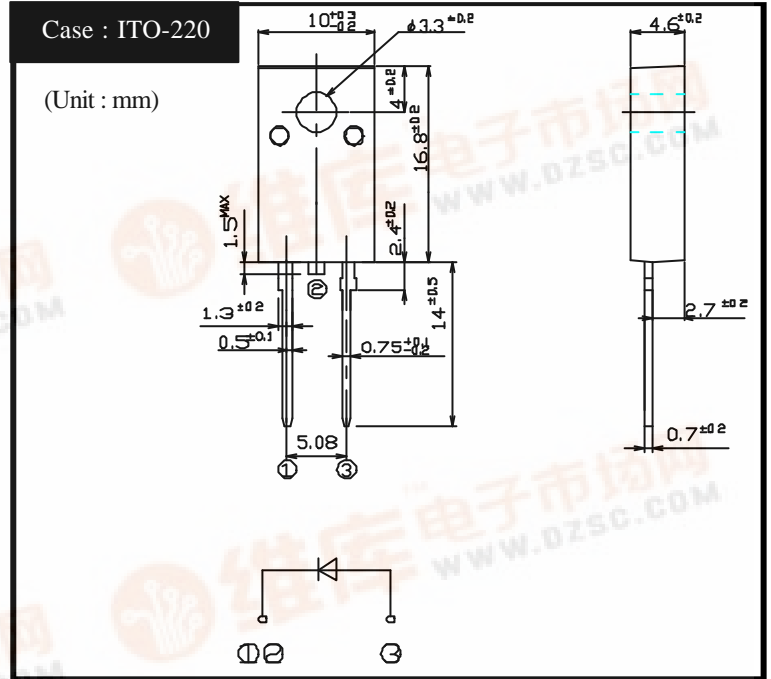
### FEATURES

- High Voltage
- trr50ns
- Fully Isolated Molding
- Dielectric strength 1.5kV guaranteed

### APPLICATION

- PFC
- Switching power supply
- Free Wheel
- CTV+B output, lighting

### OUTLINE DIMENSIONS



### RATINGS

Absolute Maximum Ratings (If not specified Tc=25 )

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55 ~ 150	
Operating Junction Temperature	Tj		150	
Maximum Reverse Voltage	V <sub>RM</sub>		600	V
Average Rectified Forward Current	I <sub>O</sub>	50Hz sine wave, R-load, Tc=123	5	A
Peak Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25	100	A
Dielectric Strength	V <sub>dis</sub>	Terminals to case, AC 1 minute	1.5	kV
Mounting Torque	TOR	(Recommended torque :0.3N·m)	0.5	N·m

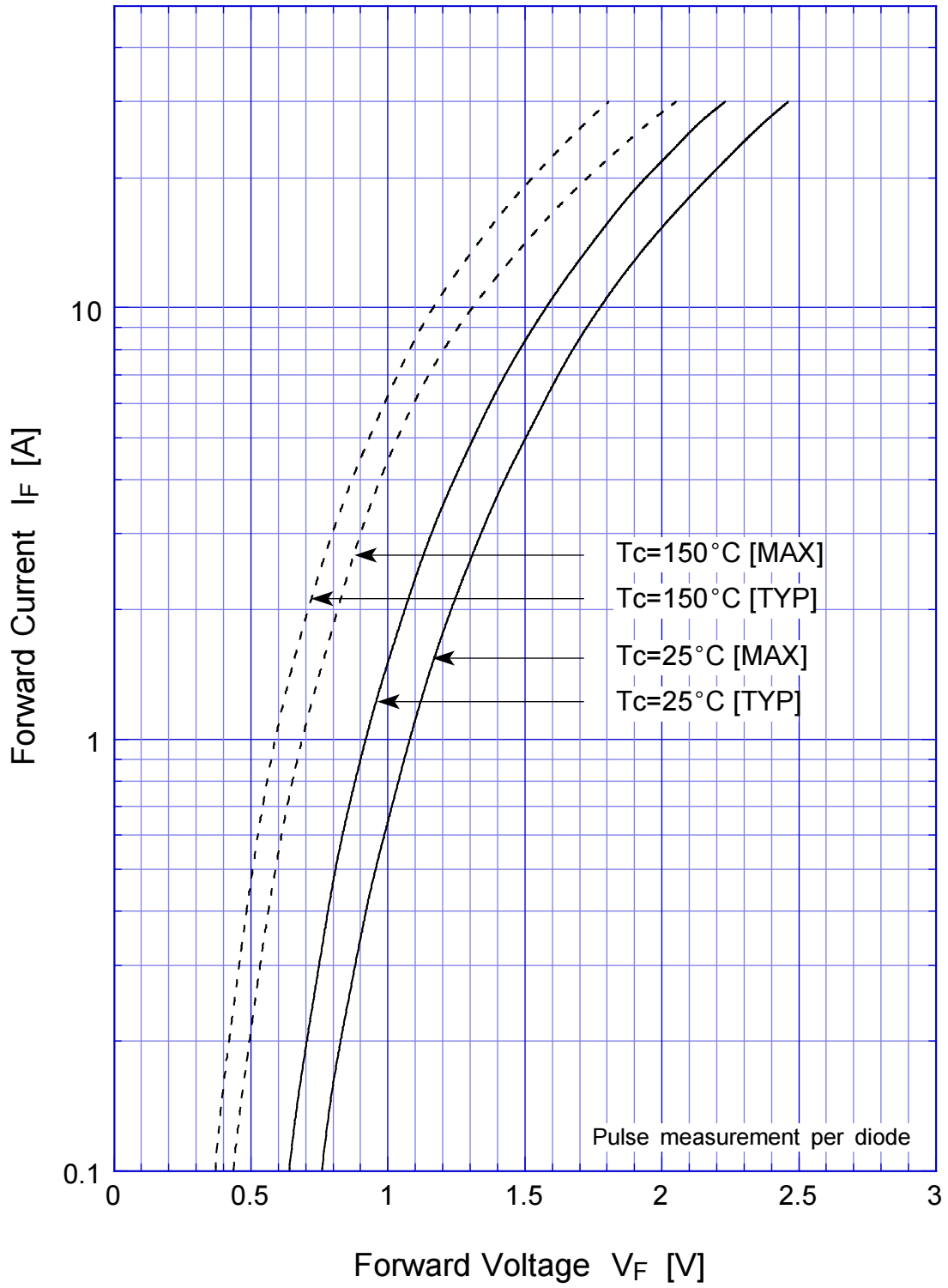
Electrical Characteristics (If not specified Tc=25 )

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =5A, Pulse measurement	Max.1.5	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =V <sub>RM</sub> , Pulse measurement	Max.10	μA
Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> =0.5A, I <sub>R</sub> =1A	Max.50	ns
Thermal Resistance	jc	junction to case	Max.3.5	/W



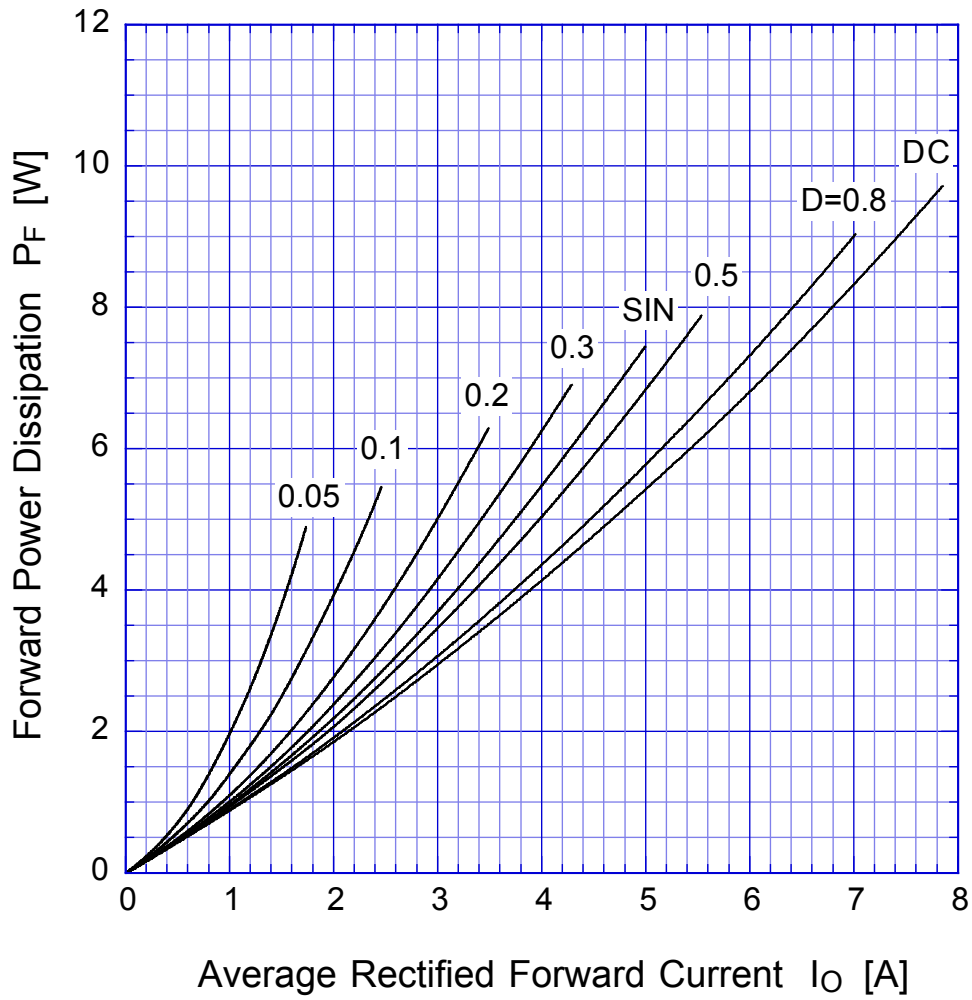
# D5L60

## Forward Voltage

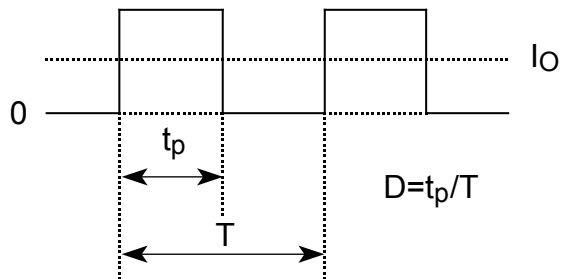


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## Forward Power Dissipation

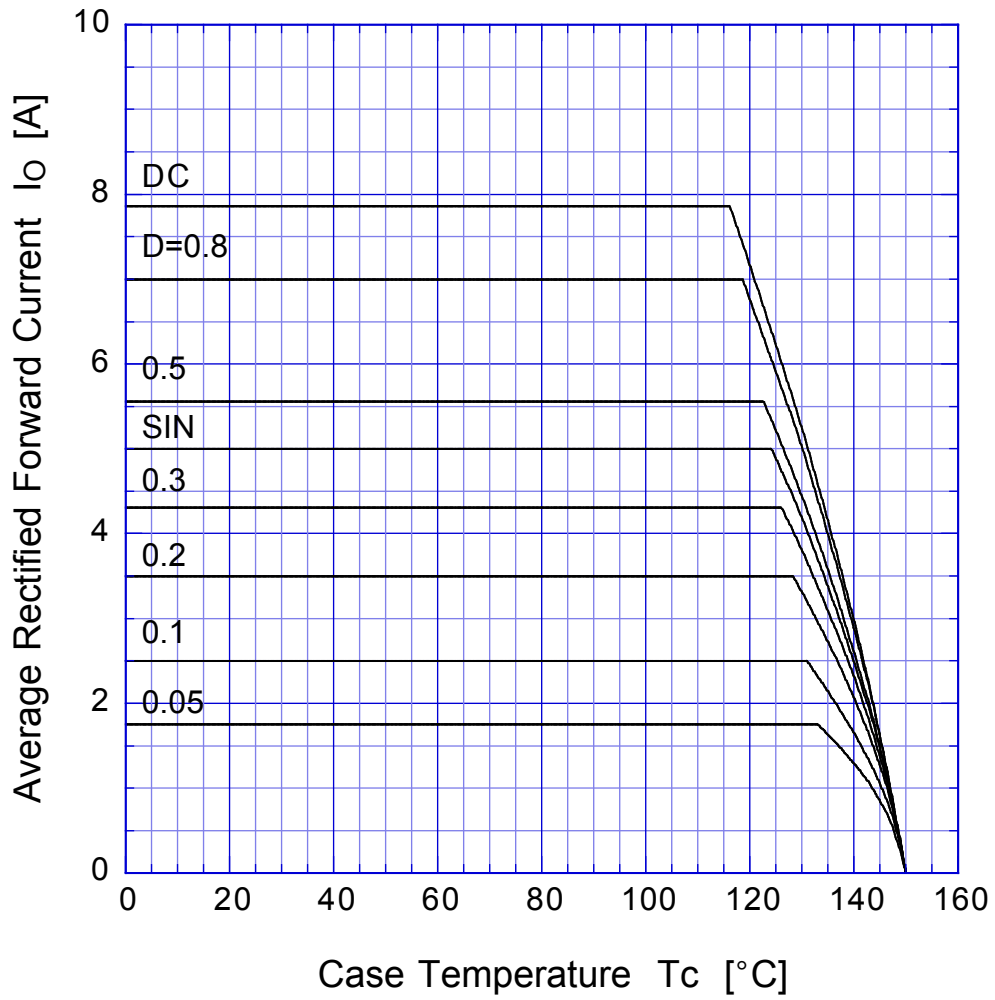


$T_j = 150^\circ\text{C}$

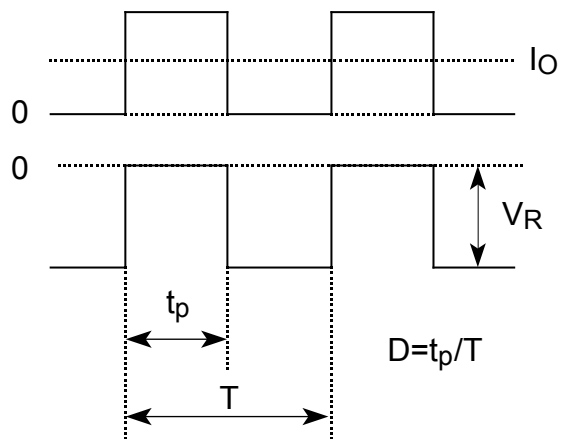


# D5L60

# Derating Curve

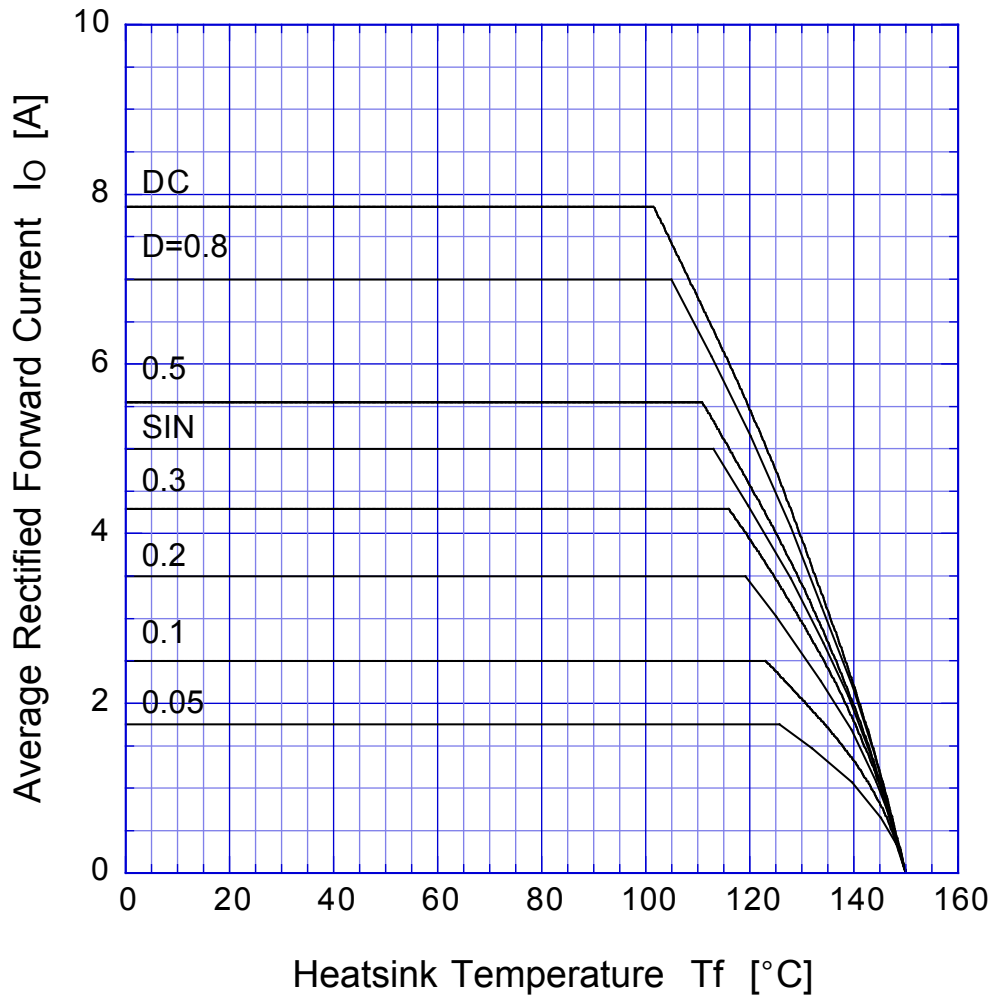


$$V_R = V_{RM}$$

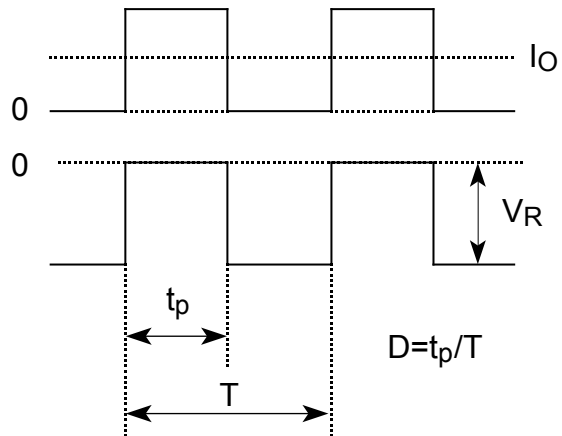


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# Derating Curve

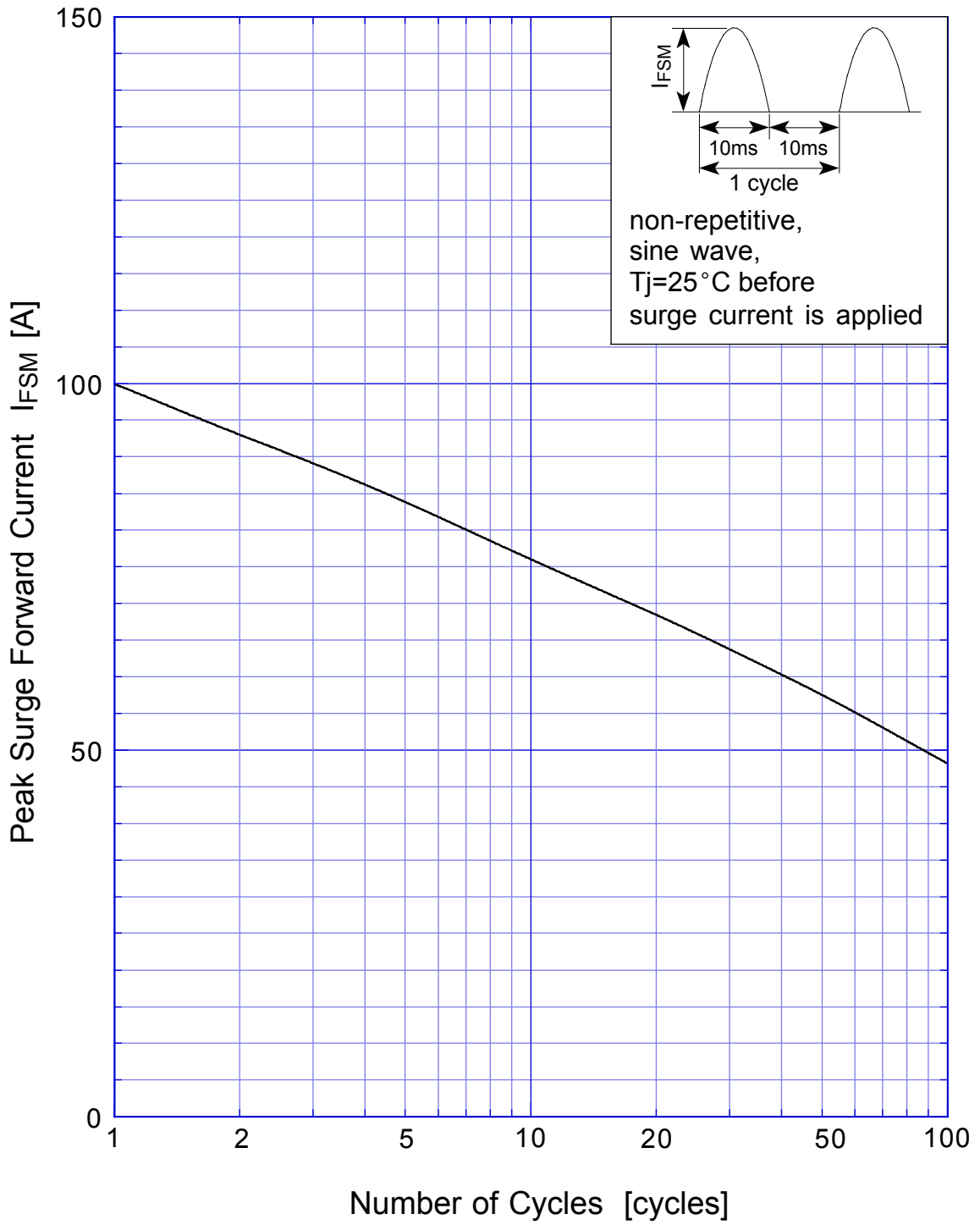


$$V_R = V_{RM}$$



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## Peak Surge Forward Capability



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## Junction Capacitance

