

D3L60

600V 3A

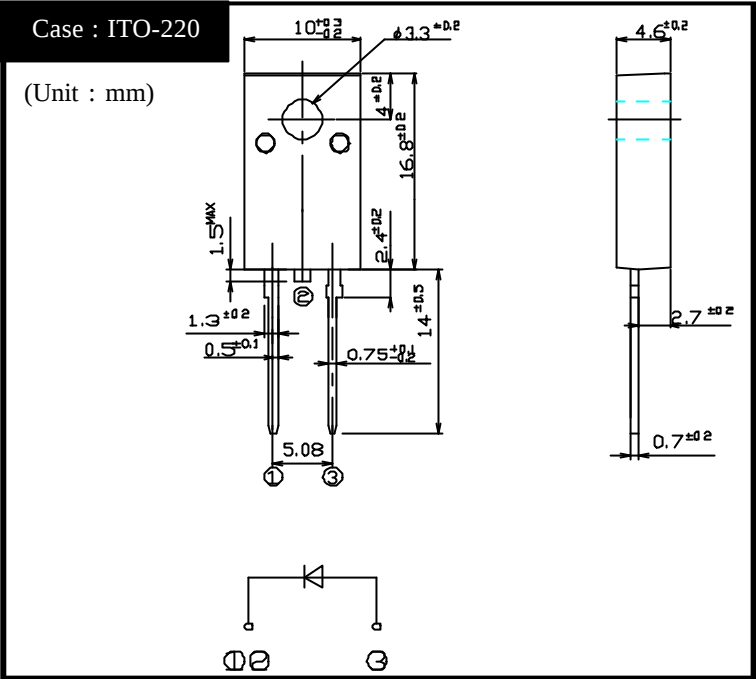
FEATURES

- 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)

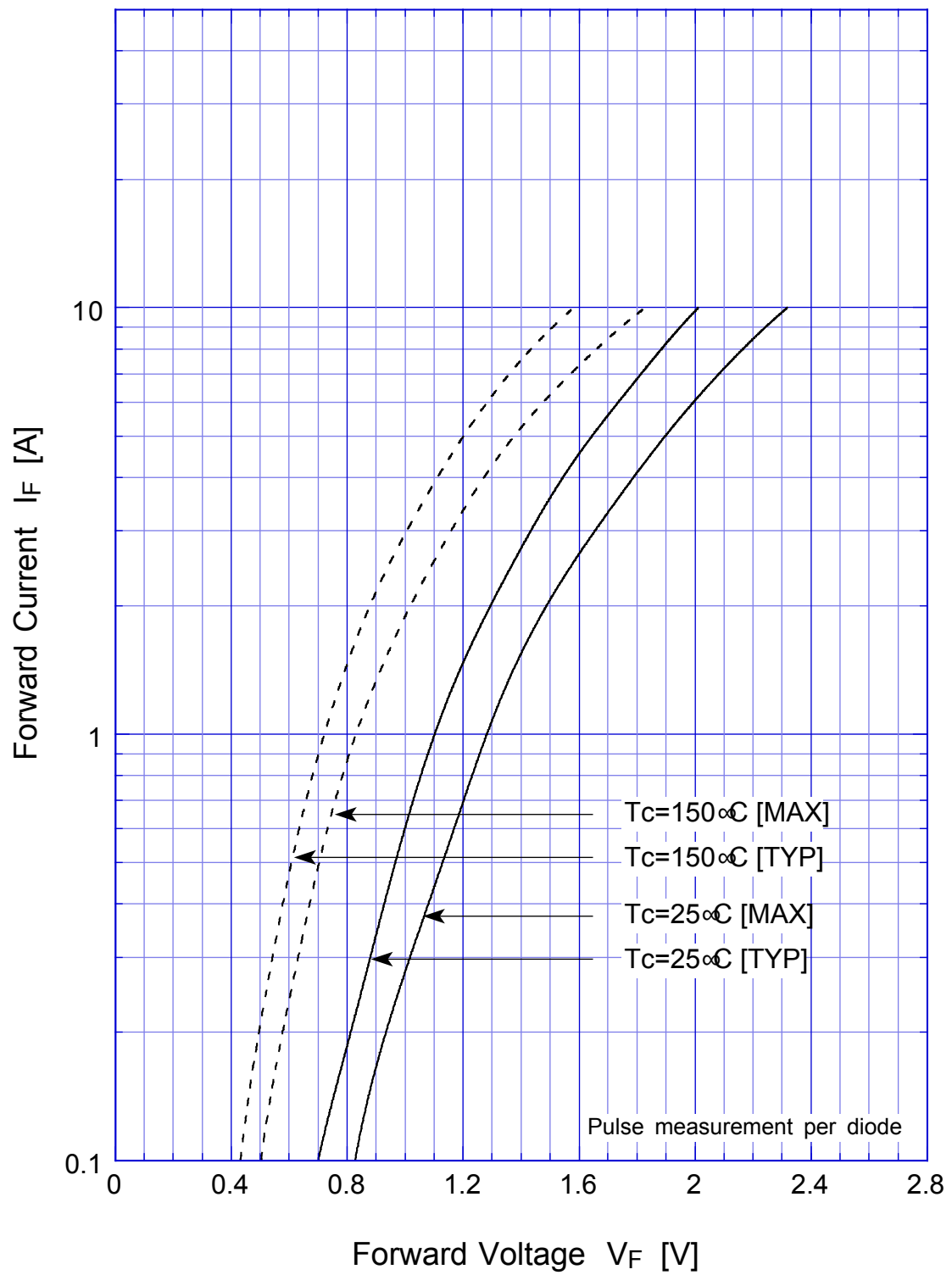
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55 ~ 150	
Operating Junction Temperature	Tj		150	
Maximum Reverse Voltage	VRM		600	V
Average Rectified Forward Current	IO	50Hz sine wave, R-load, Tc=127	3	A
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25	60	A
Dielectric Strength	Vdis	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	VF	IF=3A, Pulse measurement	Max.1.65	V
Reverse Current	IR	VR=VRM, Pulse measurement	Max.10	μA
Reverse Recovery Time	trr	IF=0.5A, IR=1A	Max.50	ns
Thermal Resistance	θjc	junction to case	Max.4.5	/W
	θjf	junction to heat-sink	Max.6	
	θja	junction to ambient	Max.55	

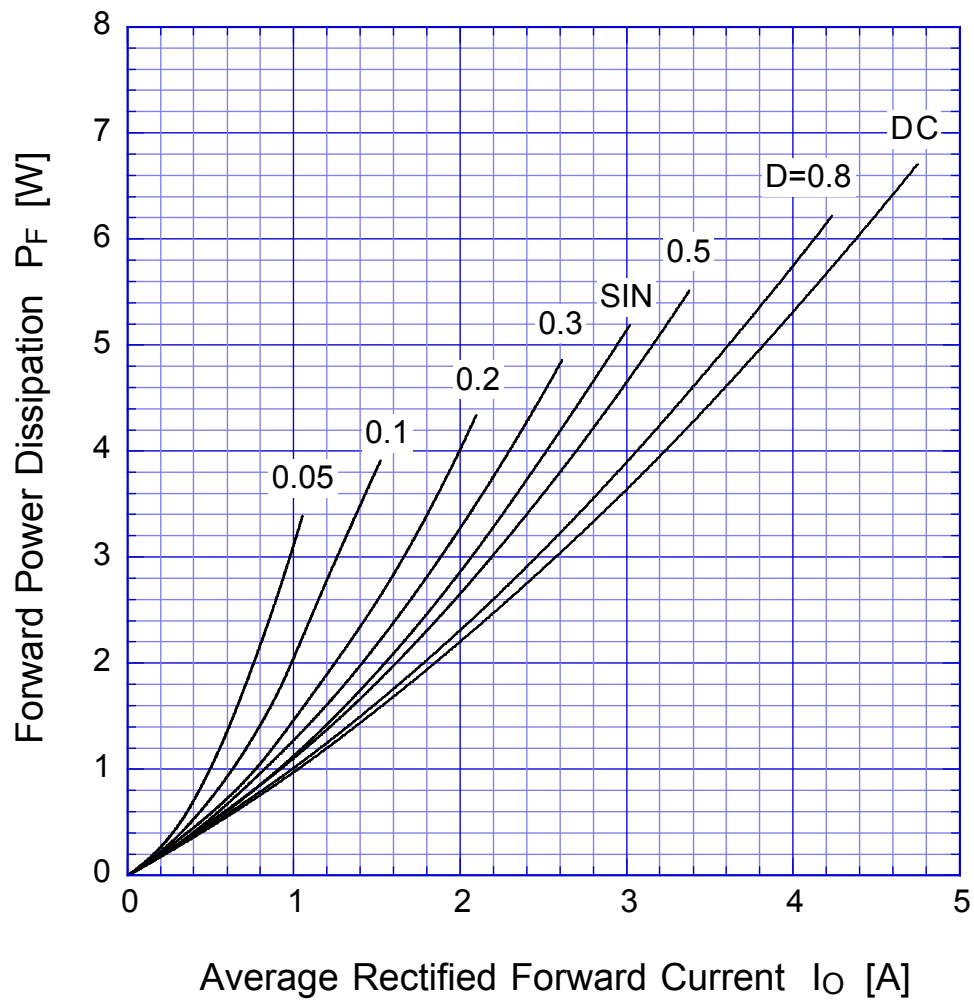
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Forward Voltage



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Forward Power Dissipation

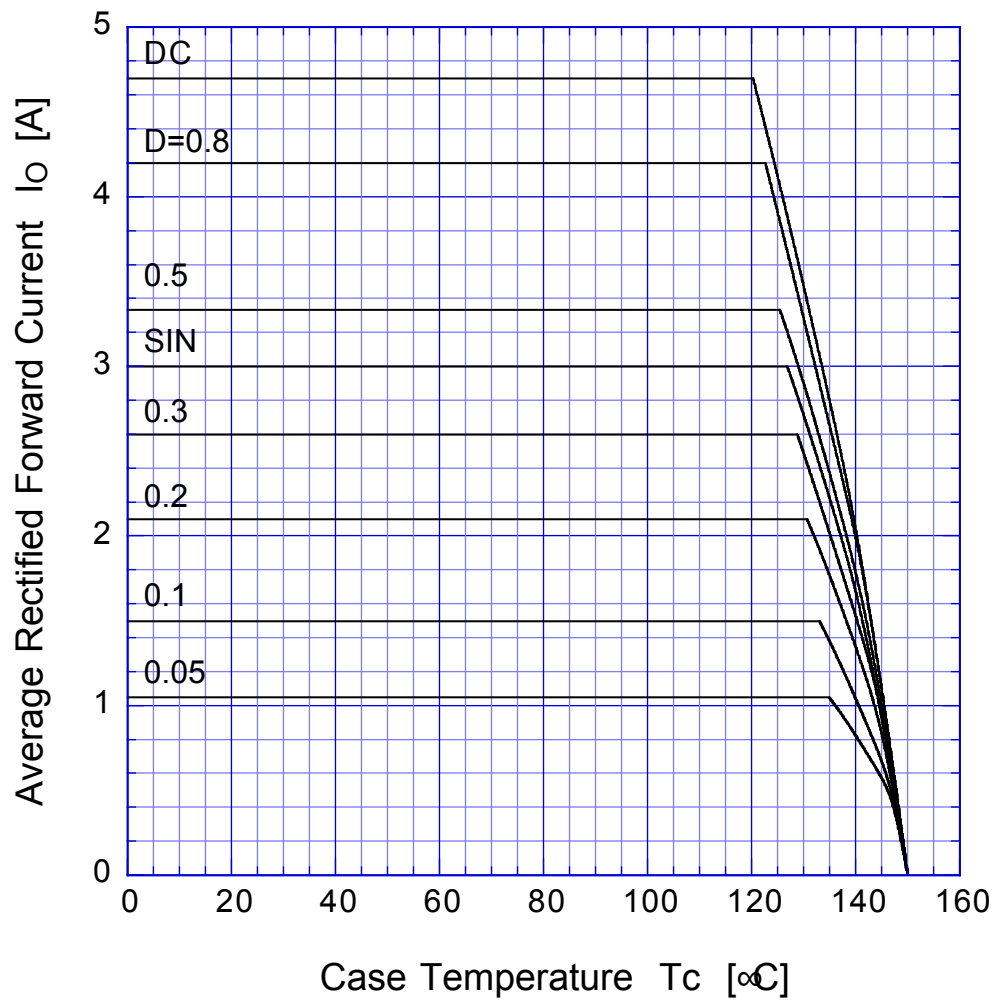


$T_j = T_{jmax}$

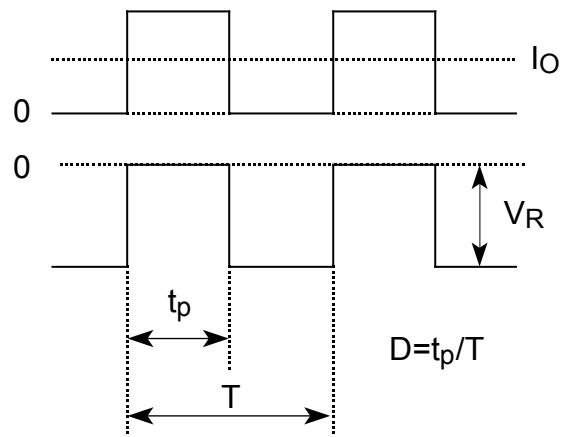


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Derating Curve

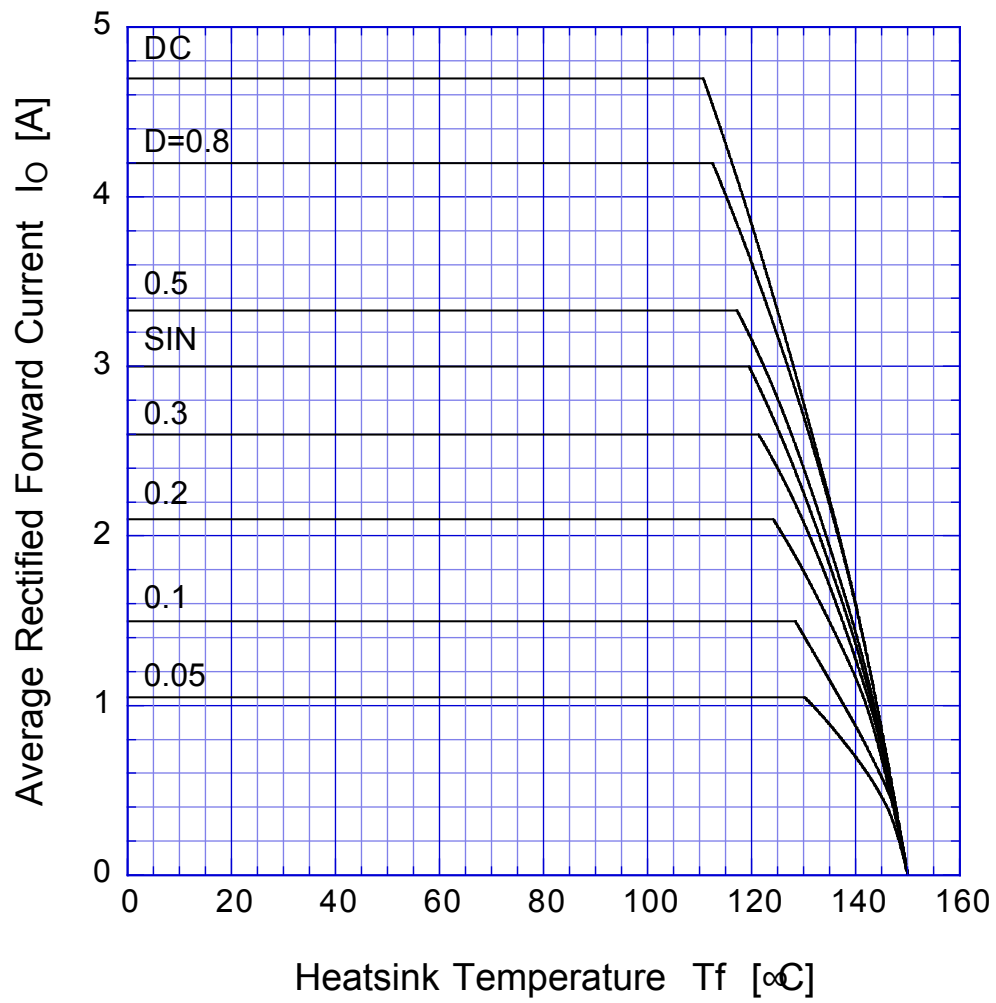


$$V_R = V_{RM}$$

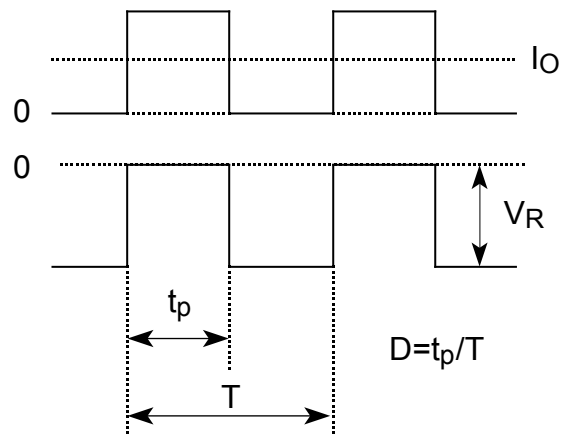


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Derating Curve

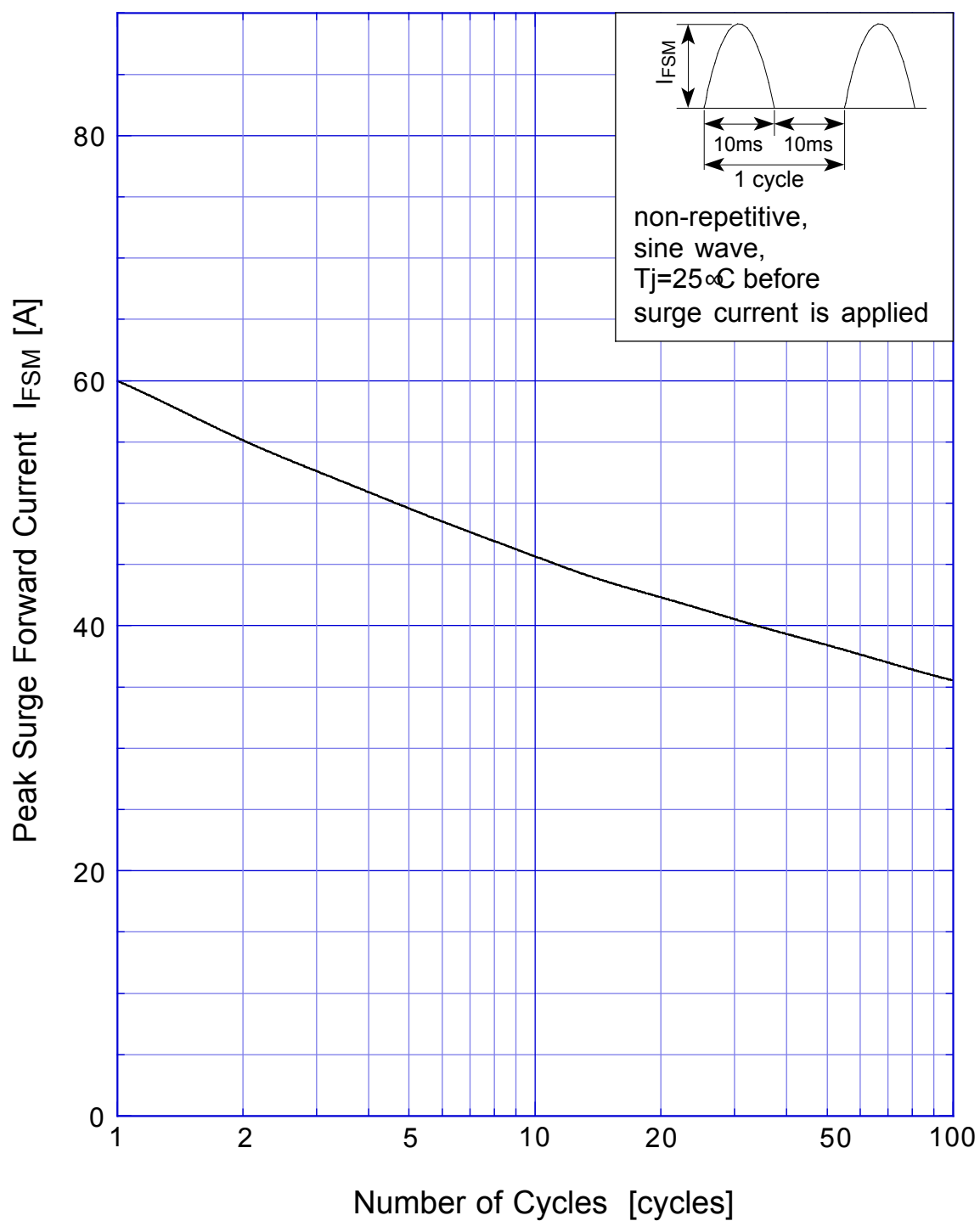


$$V_R = V_{RM}$$



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Peak Surge Forward Capability



D3L60 Junction Capacitance

