

DF10L60

600V 10A

FEATURES

- SMT
- High Voltage
- trr50ns

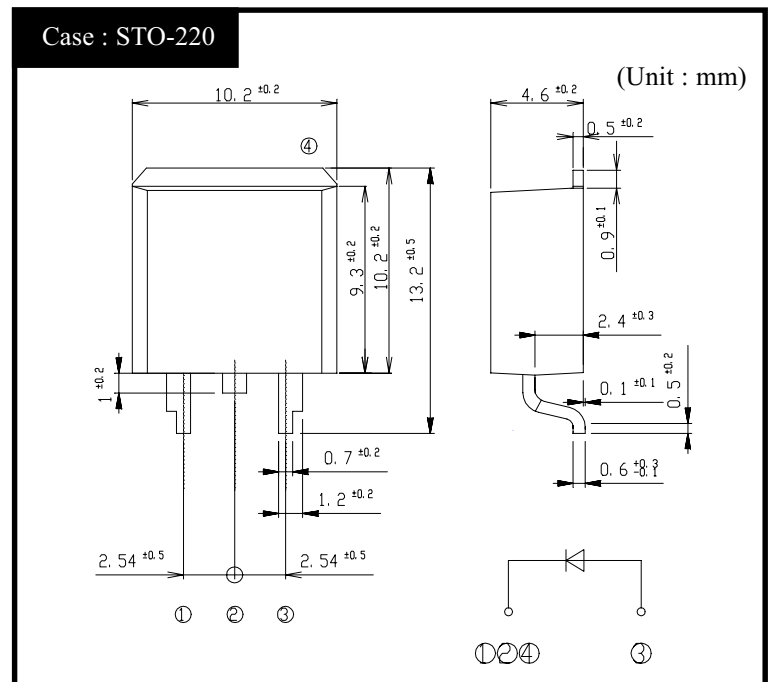
APPLICATION

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

OUTLINE DIMENSIONS

Case : STO-220

(Unit : mm)



RATINGS

●Absolute Maximum Ratings (If not specified Tc=25°C)

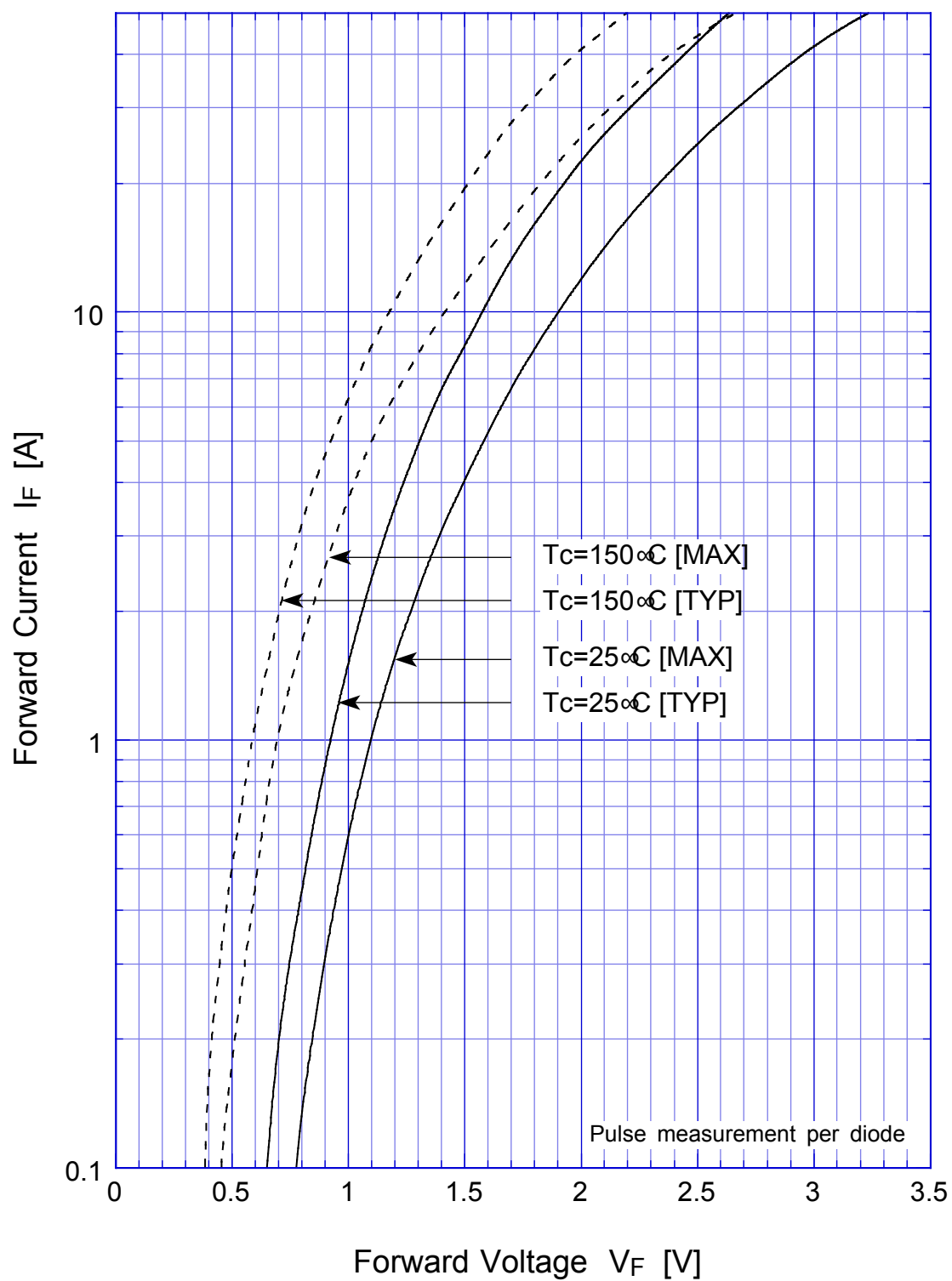
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V _{RM}		600	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, T _c =105°C	10	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25°C	100	A

●Electrical Characteristics (If not specified Tc=25°C)

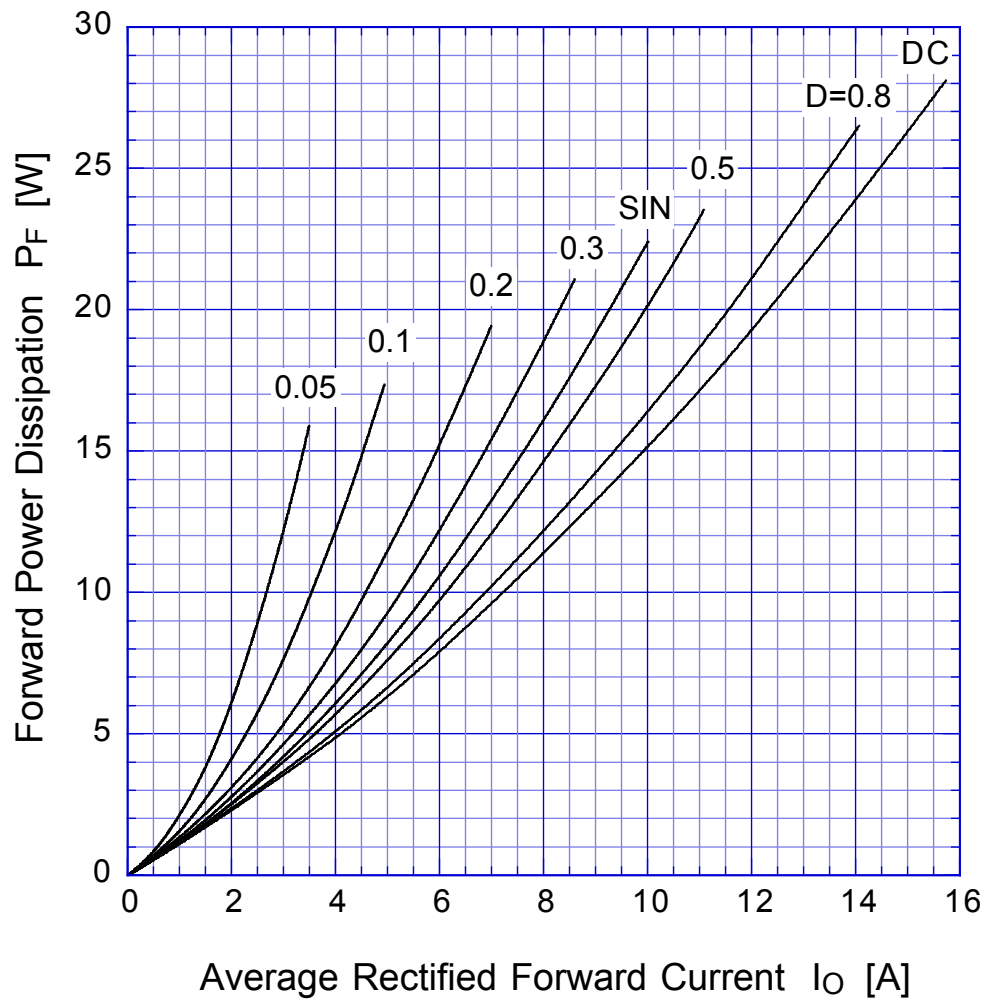
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=10A$, Pulse measurement	Max.1.9	V
Reverse Current	I_R	$V_R=V_{RM}$, Pulse measurement	Max.10	μA
Reverse Recovery Time	t_{rr}	$I_F=0.5A$, $I_R=1A$	Max.50	ns
Thermal Resistance	θ_{jc}	junction to case	Max.2	$^{\circ}C/W$

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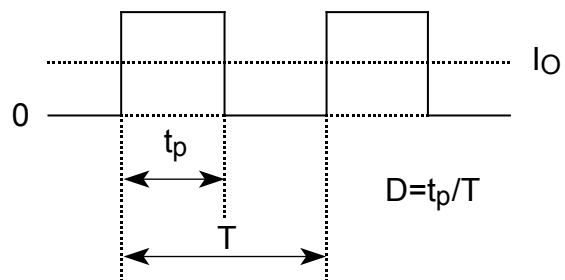
Forward Voltage



DF10L60 Forward Power Dissipation

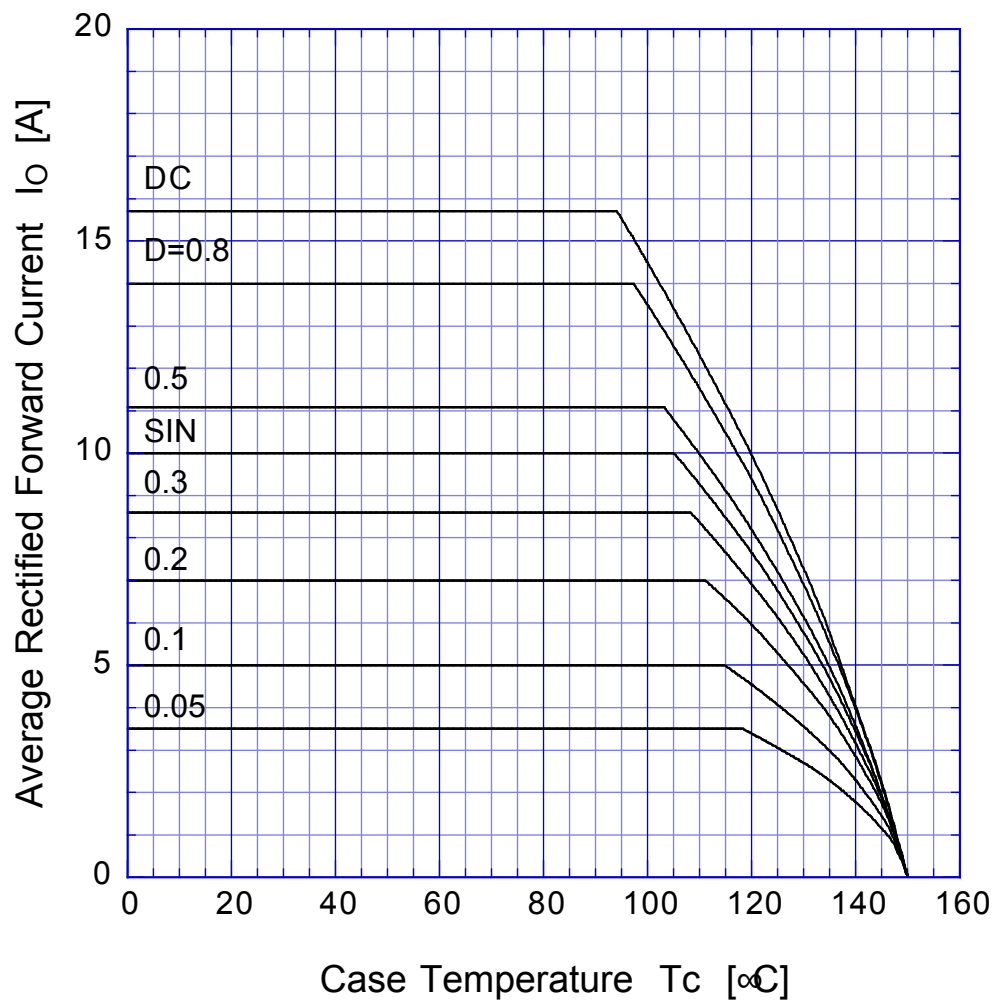


$T_j = 150^\circ\text{C}$

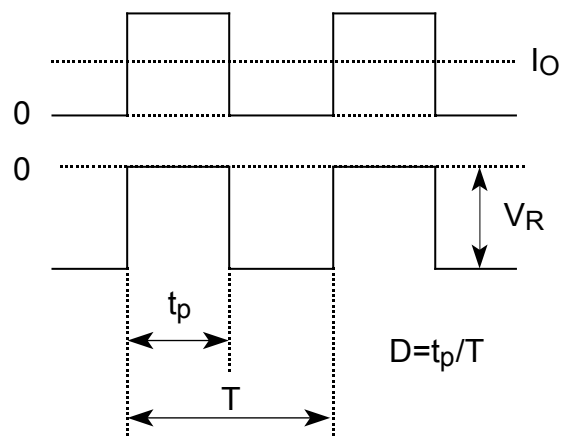


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Derating Curve

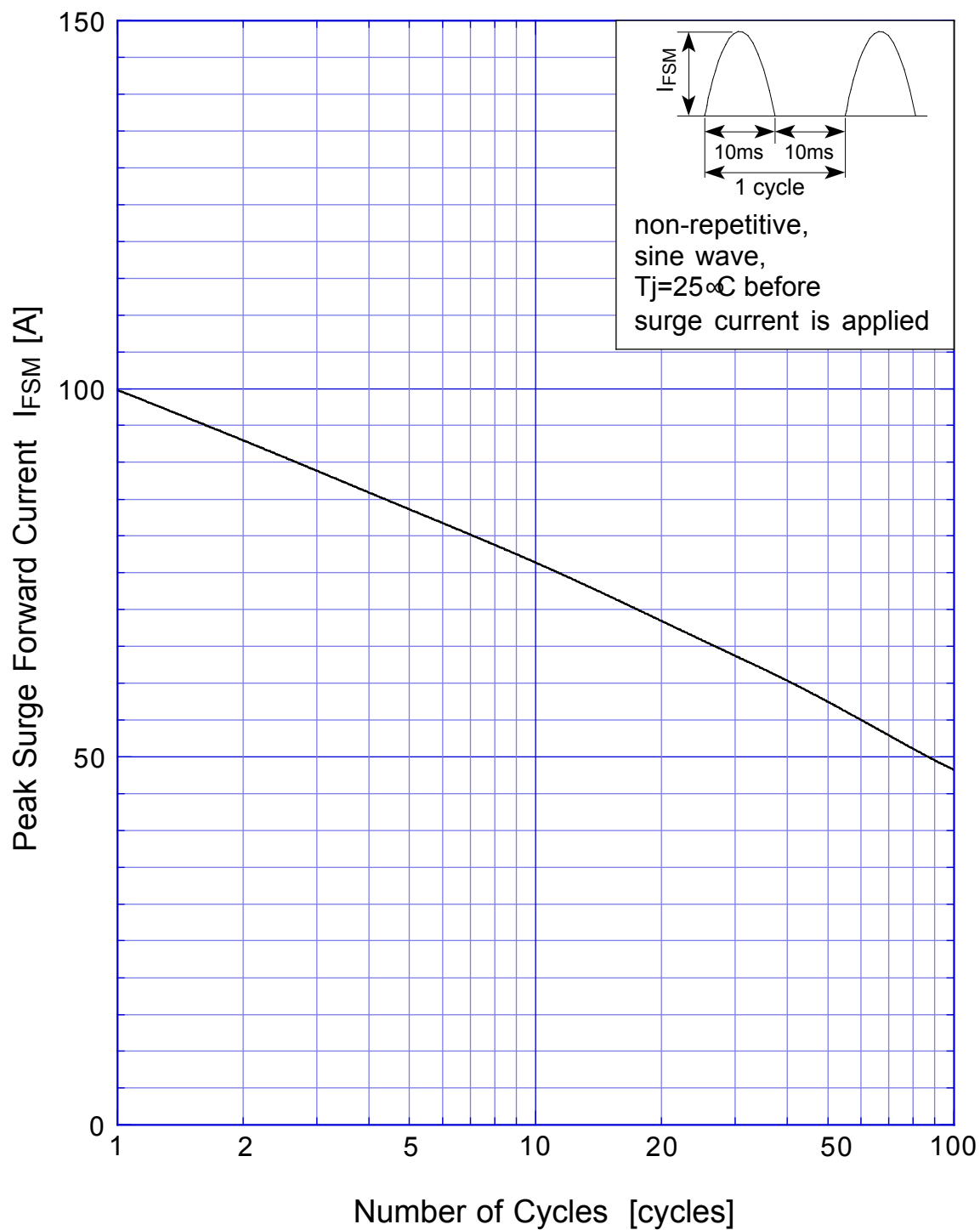


$$V_R = V_{RM}$$



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Peak Surge Forward Capability



DF10L60 Junction Capacitance

