

SHINDENGEN

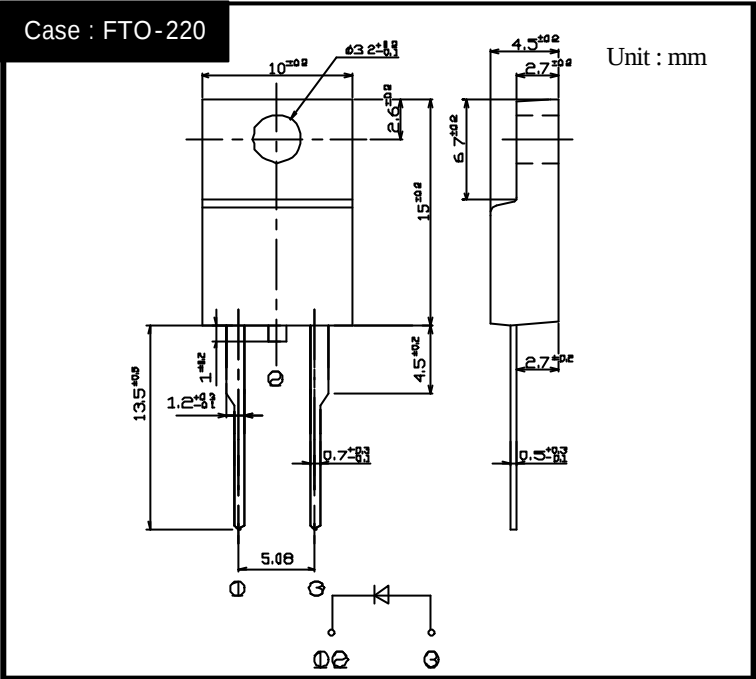
Super Fast Recovery Rectifiers

Single

SF10L60U

600V 10A

OUTLINE DIMENSIONS



RATINGS

• Absolute Maximum Ratings (If not specified Tc=25)

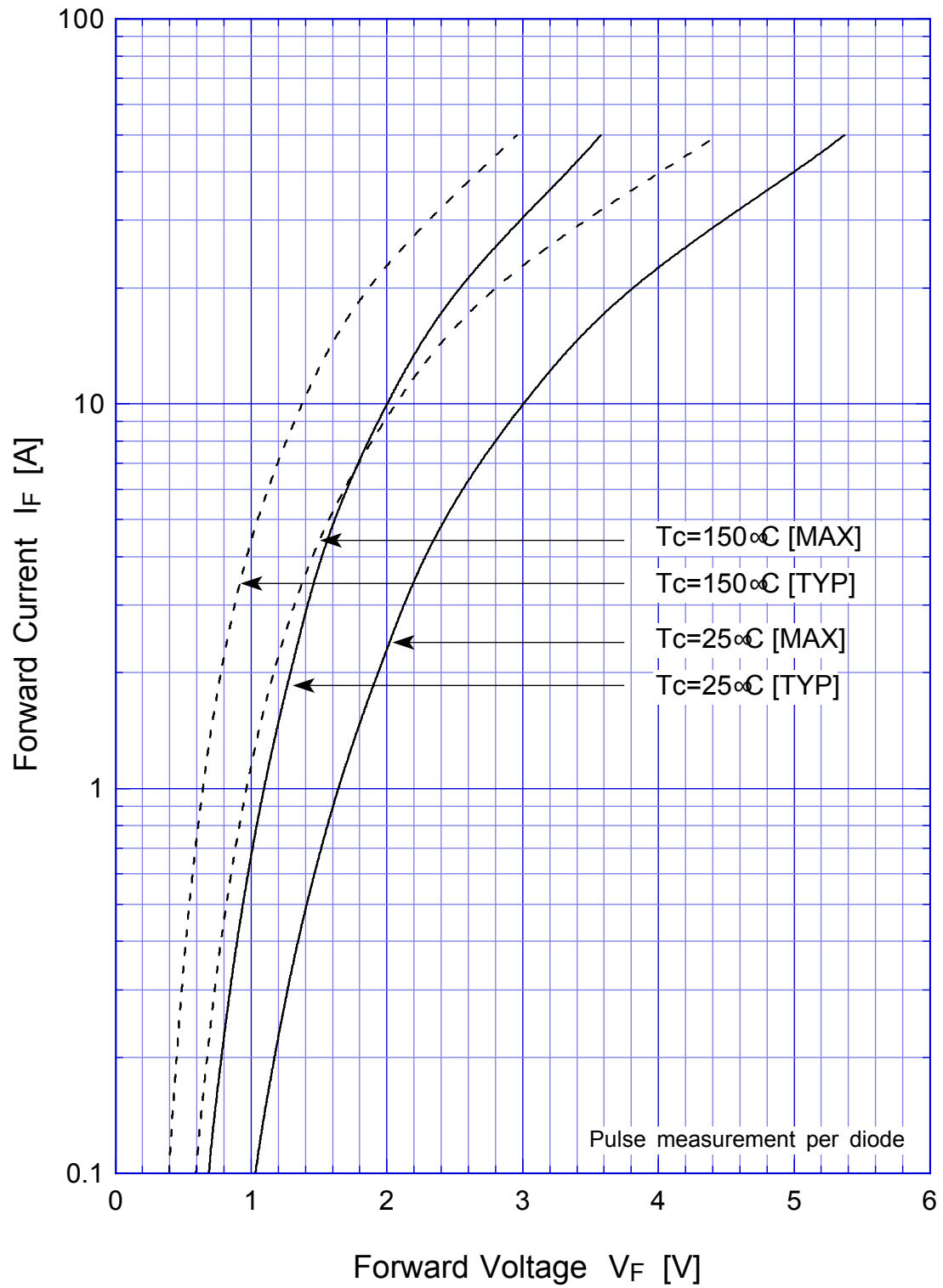
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55 ~ 150	
Operating Junction Temperature	Tj		150	
Peak Reverse Voltage	V _{RM}		600	V
Average Rectified Forward Current	I _o	50Hz sine wave, resistance load, Tc=85	10	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25	120	A
Dielectric Strength	V _{dis}	Terminals to case, AC 1 minute	2	kV
Mounting Torque	TOR	(Recommended torque)	0.5(0.3)	N·m

• Electrical Characteristics (If not specified Tc=25)

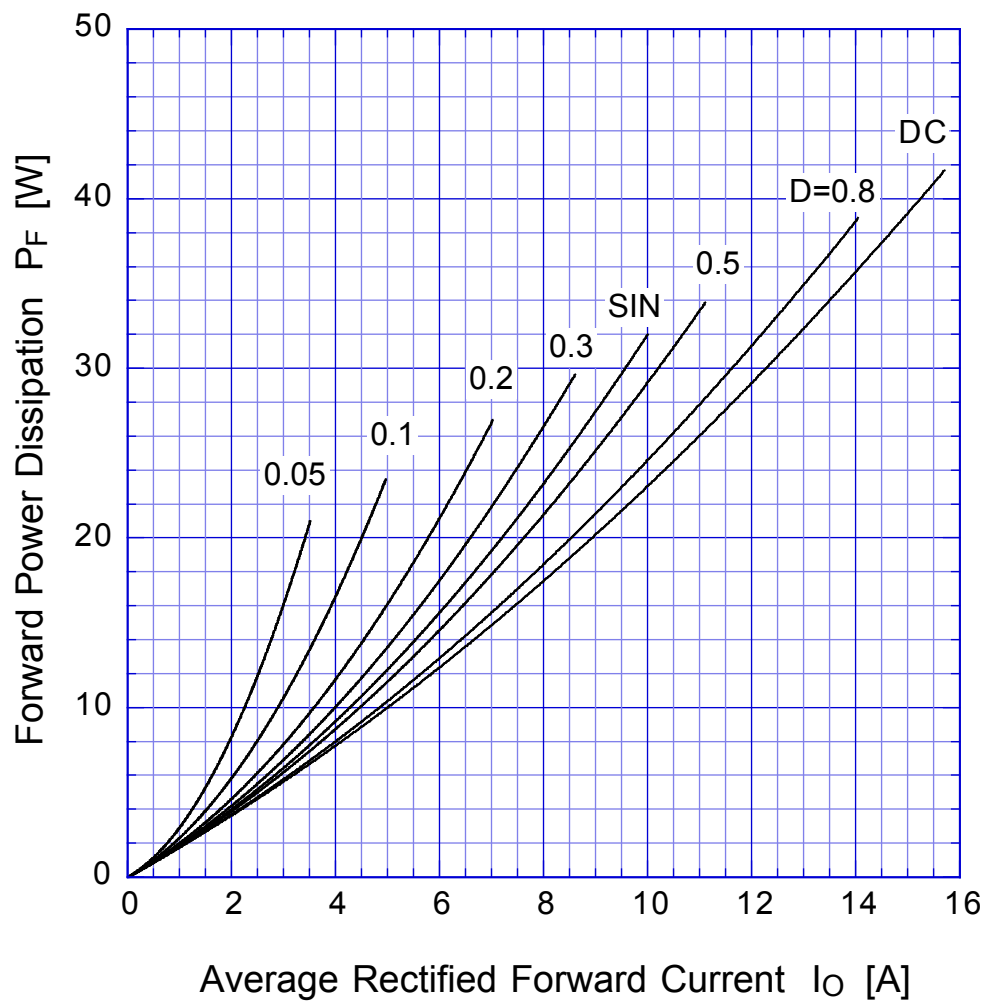
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =10A, Pulse measurement	Max.3.0	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement	Max.25	μA
Junction Capacitance	C _j	f=1MHz, V _R =10V	Typ.55	pF
Reverse Recovery Time	t _{rr}	I _F =0.5A, I _R =1A	Max.25	ns
Thermal Resistance	θ _{jc}	junction to case	Max.2.0	/W

SF10L60U

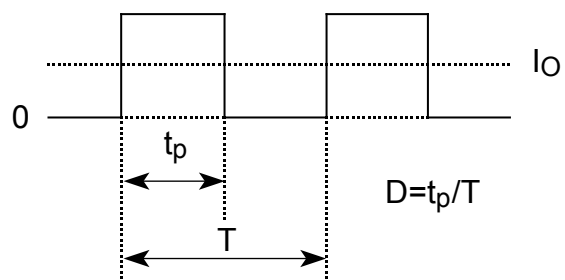
Forward Voltage



SF10L60U Forward Power Dissipation

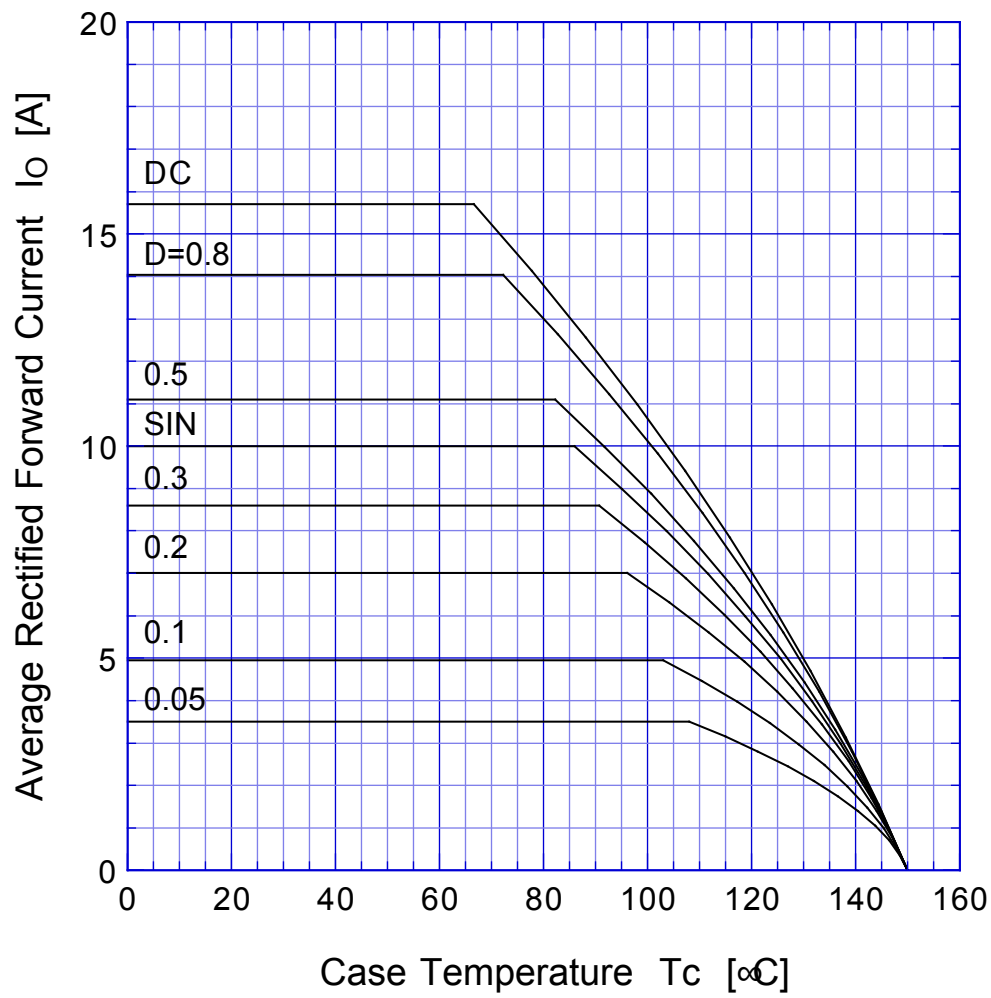


$T_j = 150^\circ\text{C}$

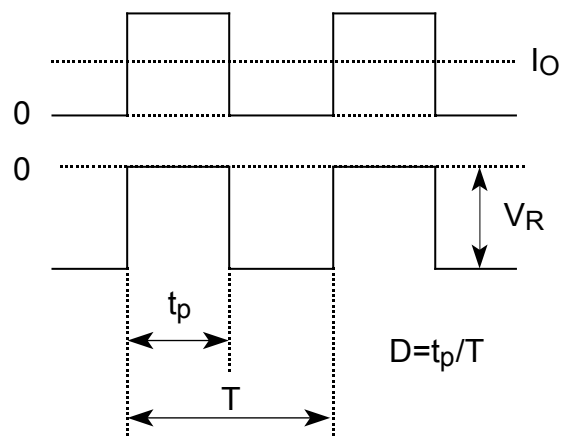


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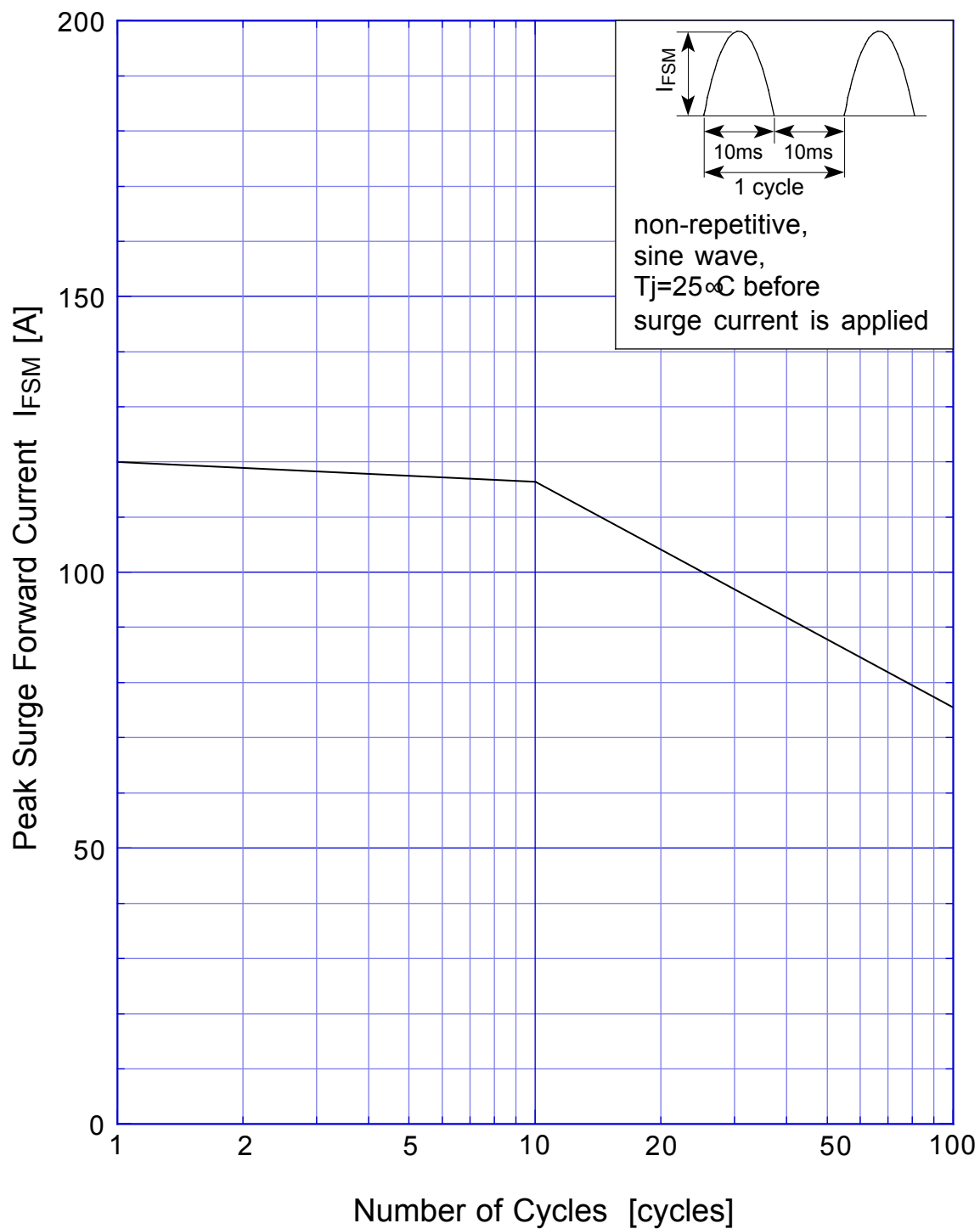
Derating Curve



$$V_R = V_{RM}$$



SF10L60U Peak Surge Forward Capability



SF10L60U Junction Capacitance

