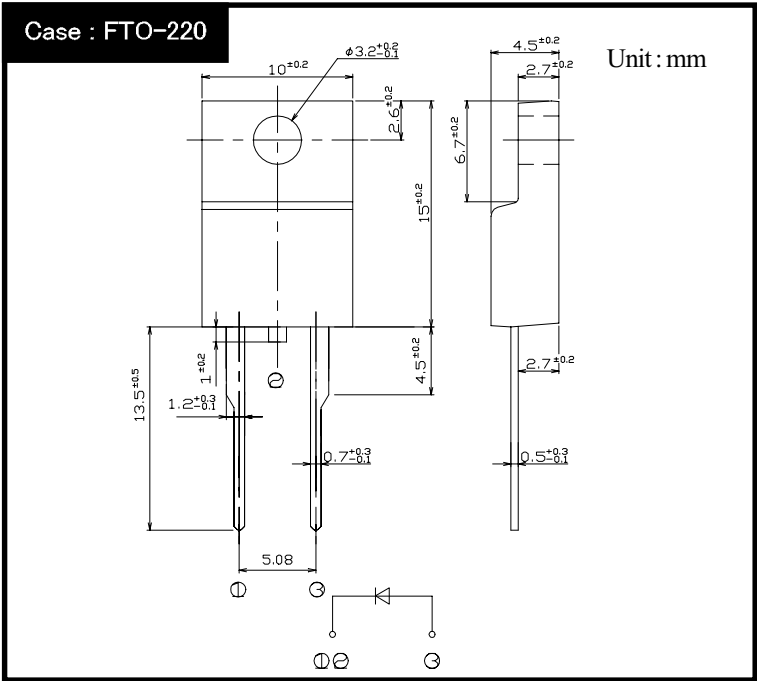


SF20L60U

600V 20A

OUTLINE DIMENSIONS



RATINGS

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

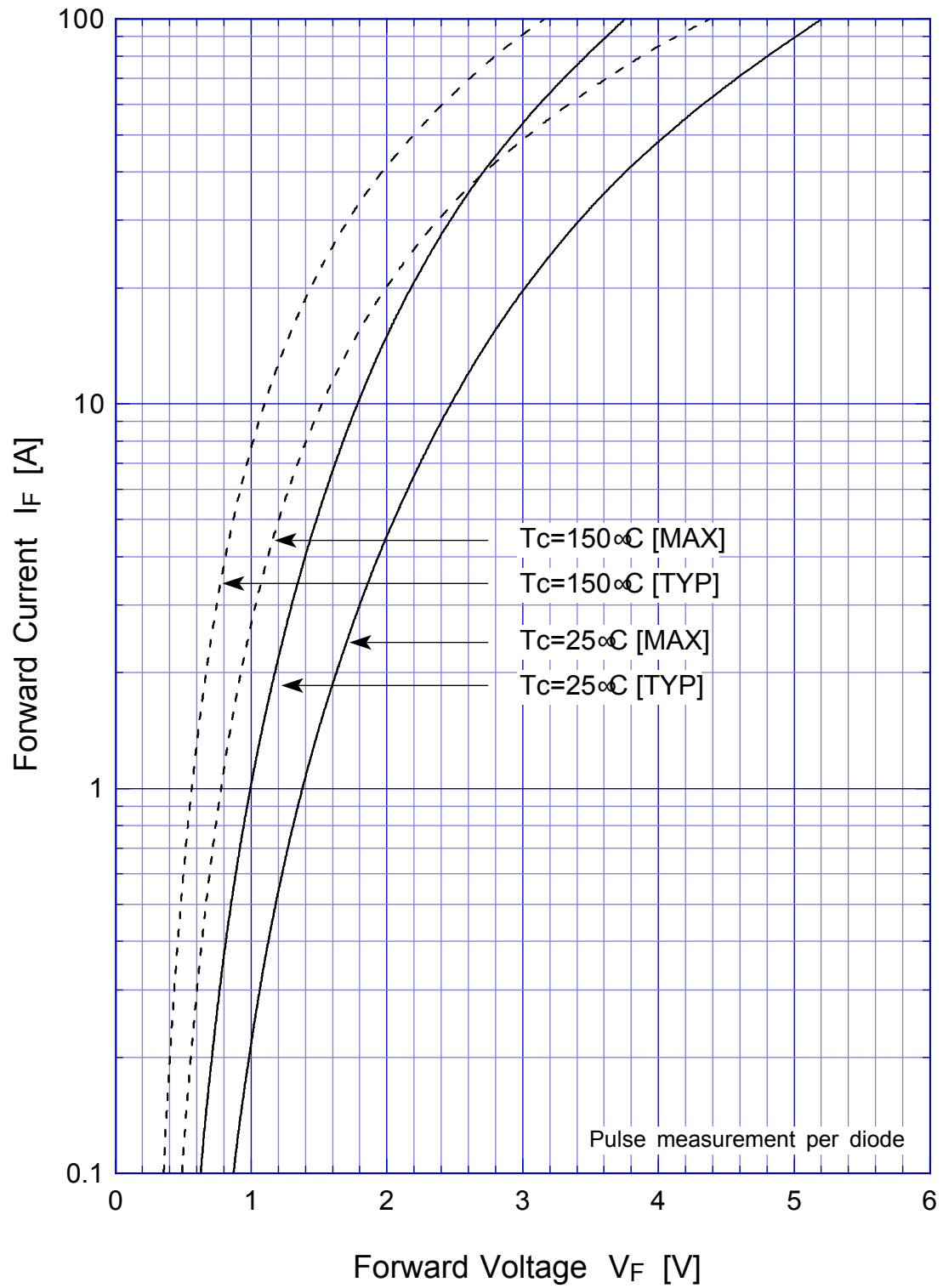
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-55~150	°C
Operating Junction Temperature	T _j		150	°C
Peak Reverse Voltage	V _{RM}		600	V
Average Rectified Forward Current	I _O	50Hz sine wave, resistance load, T _c =68°C	20	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25°C	180	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 T_c=25°C)

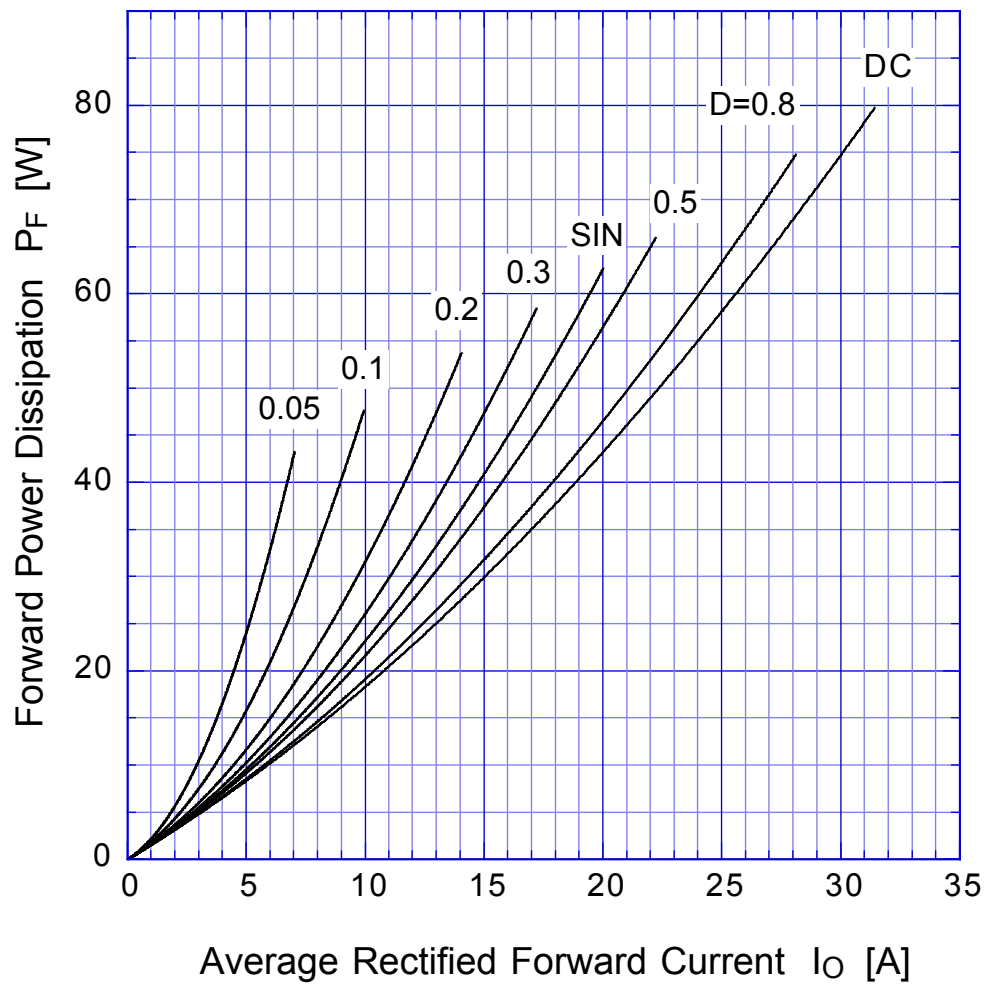
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =20A, Pulse measurement	Max.3.0	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement	Max.25	μA
Junction Capacitance	C _j	f=1MHz, V _R =10V	Typ.105	pF
Reverse Recovery Time	t _{rr}	I _F =0.5A, I _R =1A	Max.35	ns
Thermal Resistance	θ _{jc}	junction to case	Max.1.3	°C/W

SF20L60U

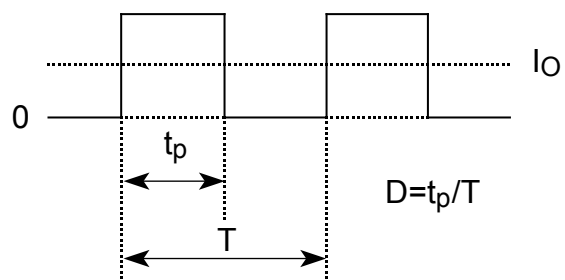
Forward Voltage



SF20L60U Forward Power Dissipation

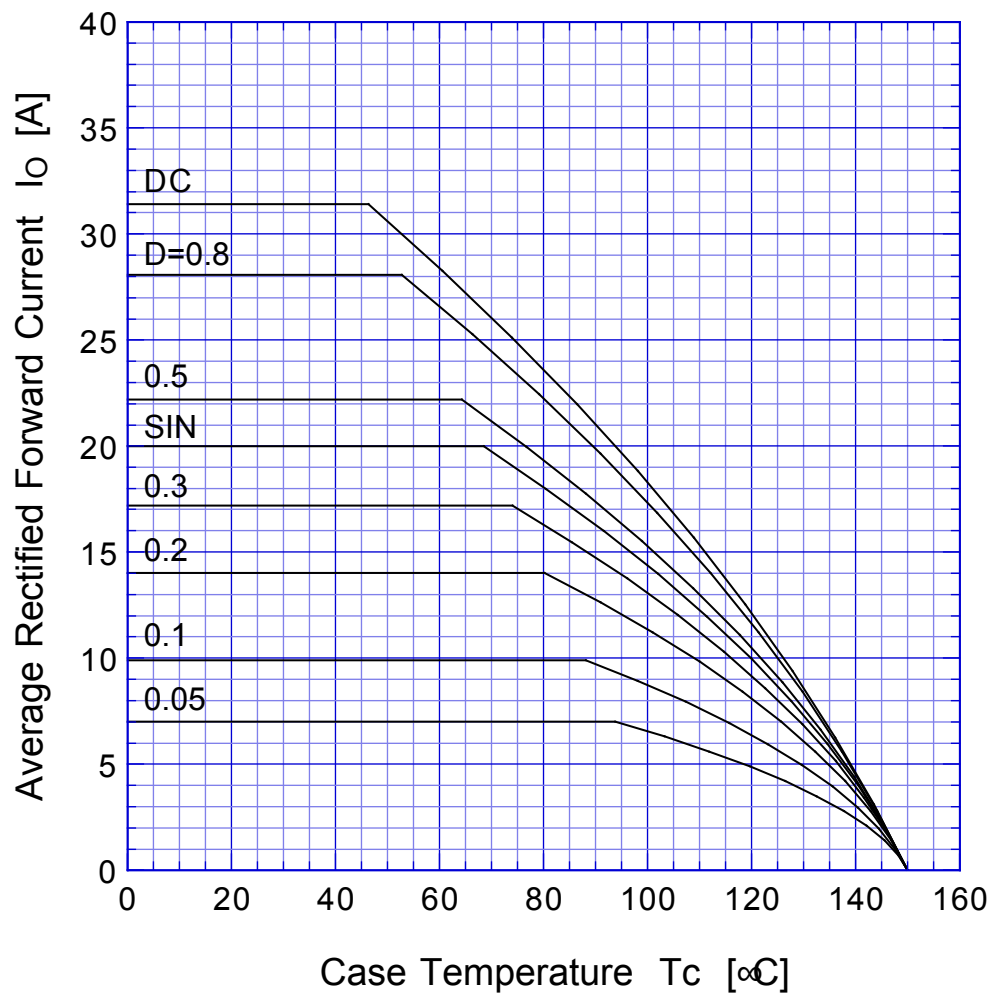


$T_j = 150^\circ\text{C}$

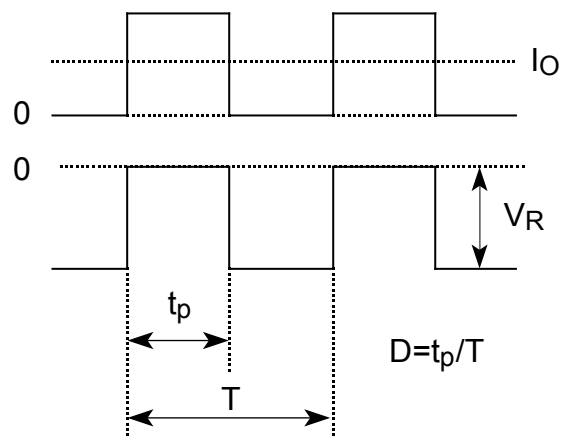


SF20L60U

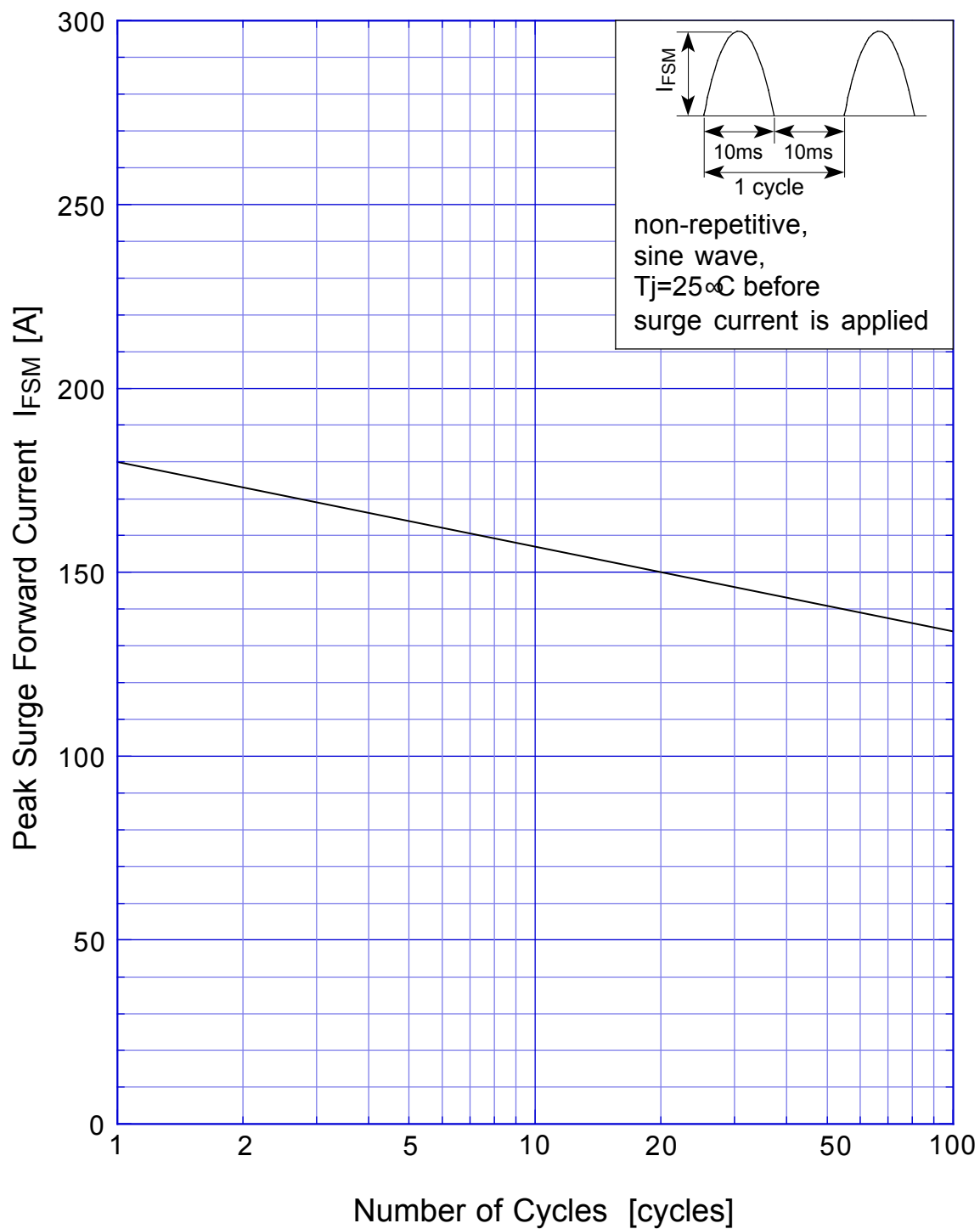
Derating Curve



$$V_R = V_{RM}$$



SF20L60U Peak Surge Forward Capability



SF20L60U Junction Capacitance

