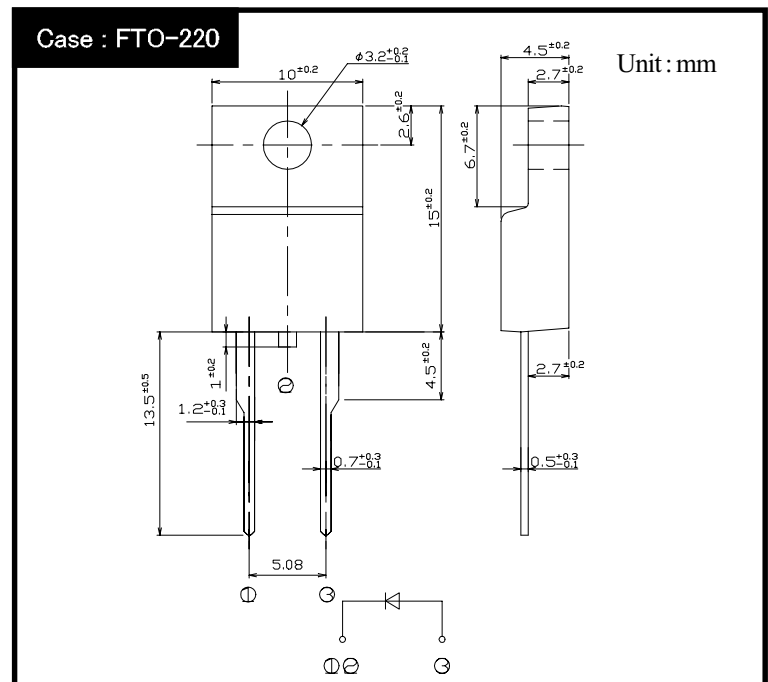


SF5L60U

600V 5A

OUTLINE DIMENSIONS



RATINGS

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

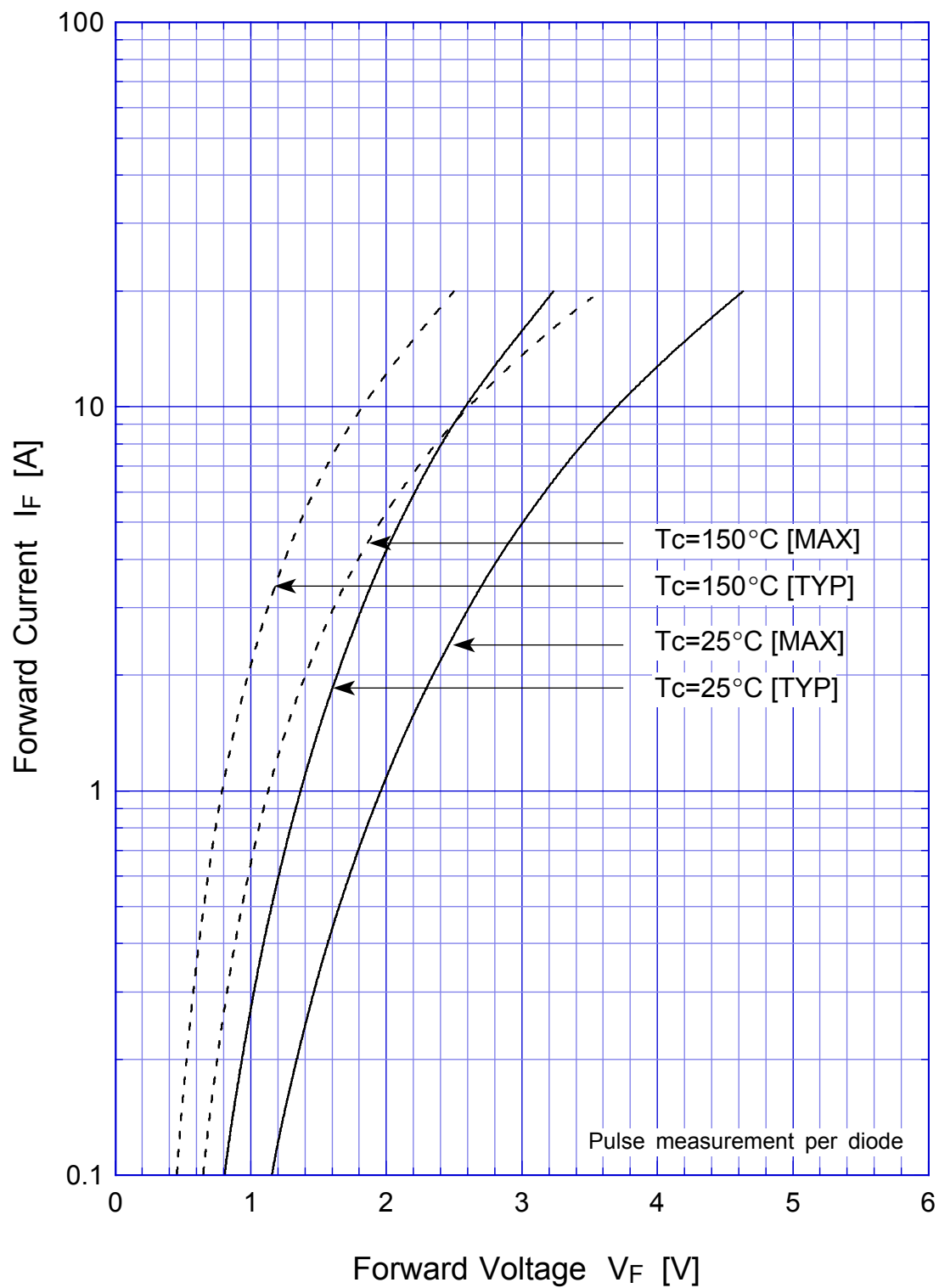
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-55~150	°C
Operating Junction Temperature	T _j		150	°C
Peak Reverse Voltage	V _{RM}		600	V
Average Rectified Forward Current	I _O	50Hz sine wave, resistance load, T _c =96°C	5	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25°C	60	A
Dielectric Strength	V _{dis}	Terminals to case, AC 1 minute	2	kV
Mounting torque	T _{OR}	(recommended torque)	0.5(0.3)	N·m

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

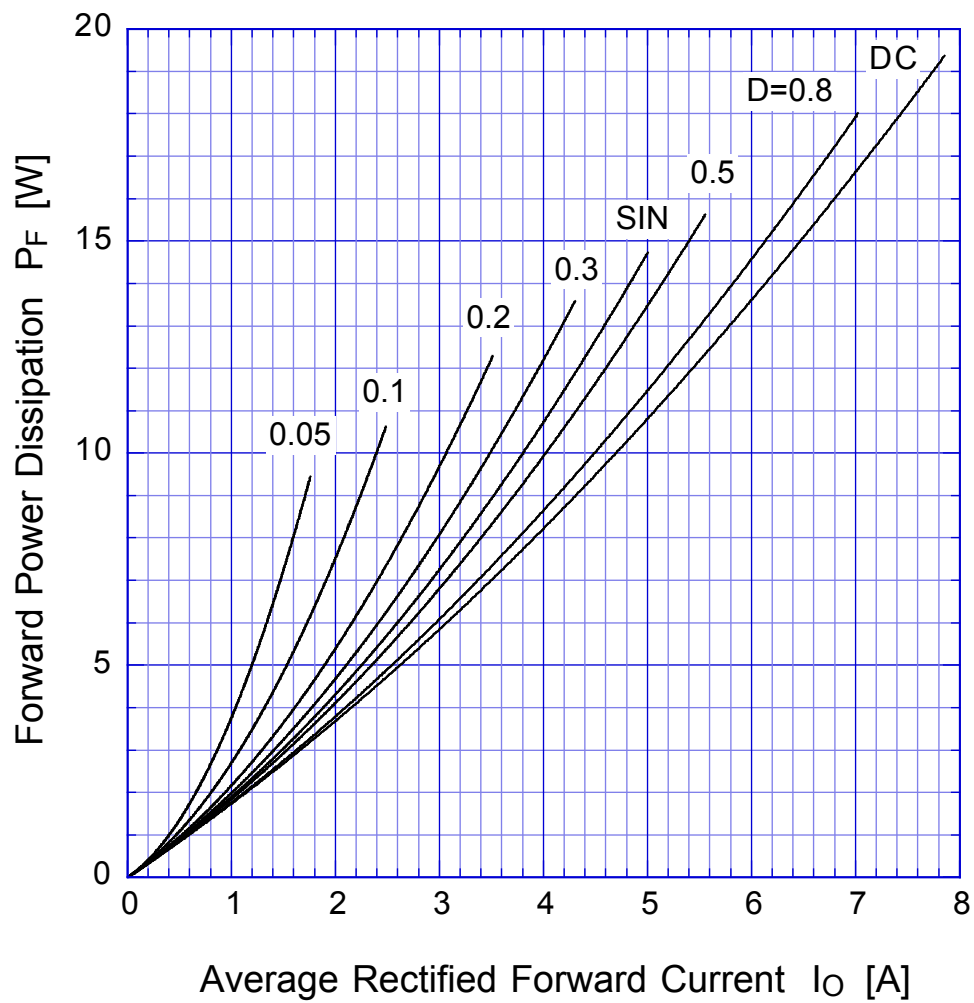
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=5A$, Pulse measurement	Max.3.0	V
Reverse Current	I_R	$V_R=V_{RM}$, Pulse measurement	Max.25	μA
Junction Capacitance	C_j	$f=1MHz$, $V_R=10V$	Typ.30	pF
Reverse Recovery Time	t_{rr}	$I_F=0.5A$, $I_R=1A$	Max.25	ns
Thermal Resistance	θ_{jc}	junction to case	Max.3.6	$^{\circ}C/W$

SF5L60U

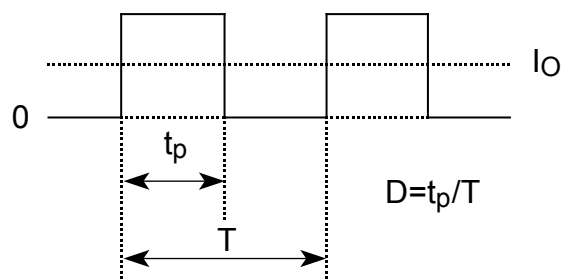
Forward Voltage



SF5L60U Forward Power Dissipation

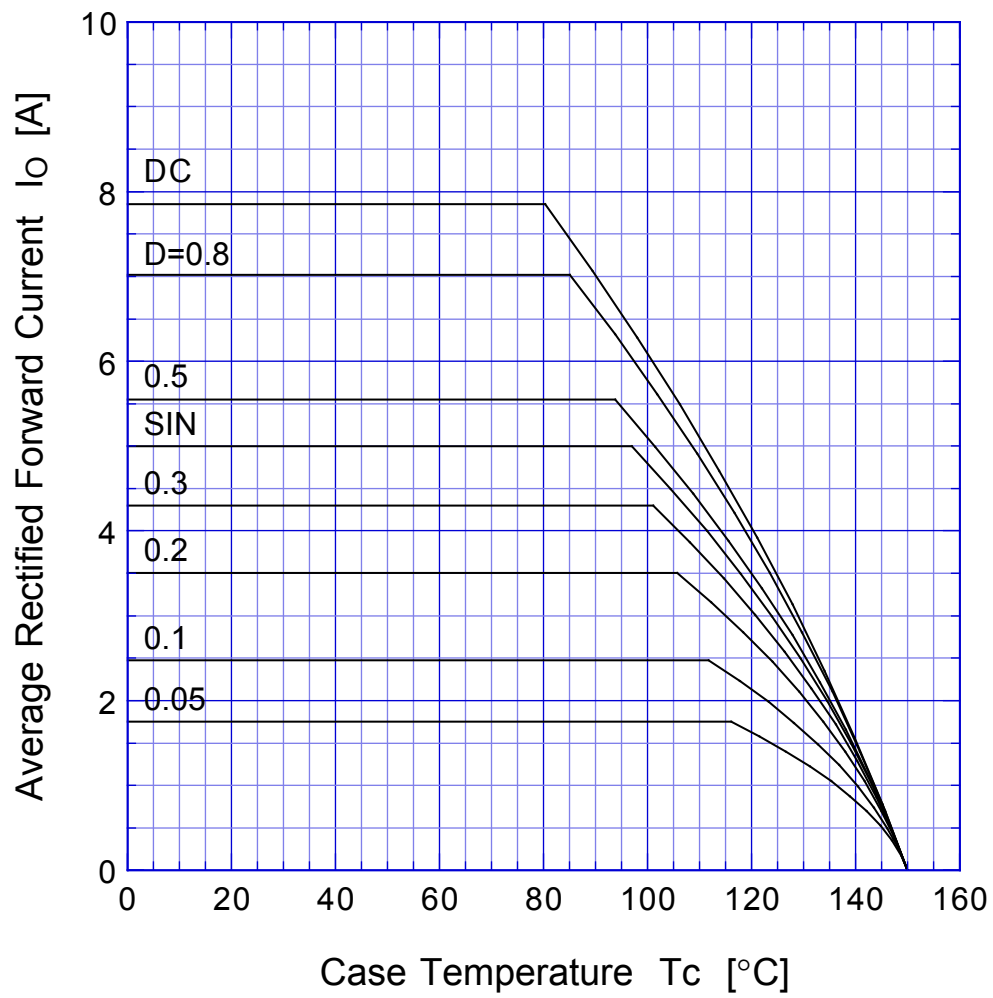


$T_j = 150^\circ\text{C}$

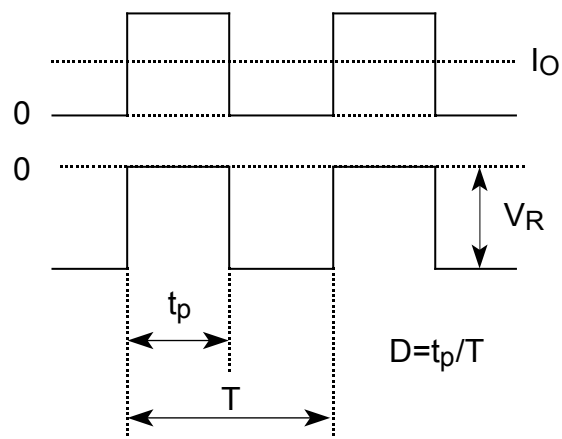


SF5L60U

Derating Curve

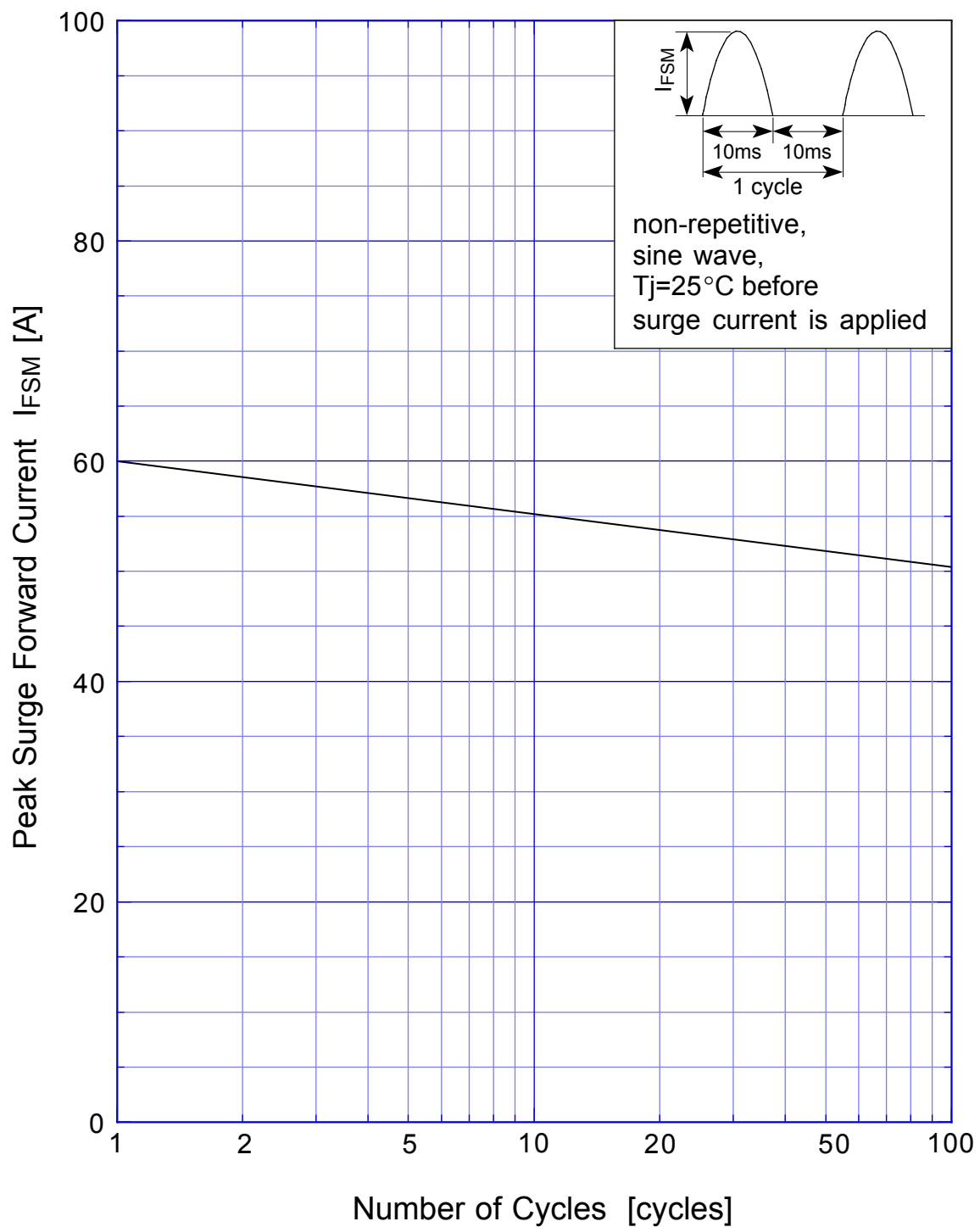


$$V_R = V_{RM}$$



SF5L60U

Peak Surge Forward Capability



SF5L60U Junction Capacitance

