

Super Fast Recovery Rectifiers

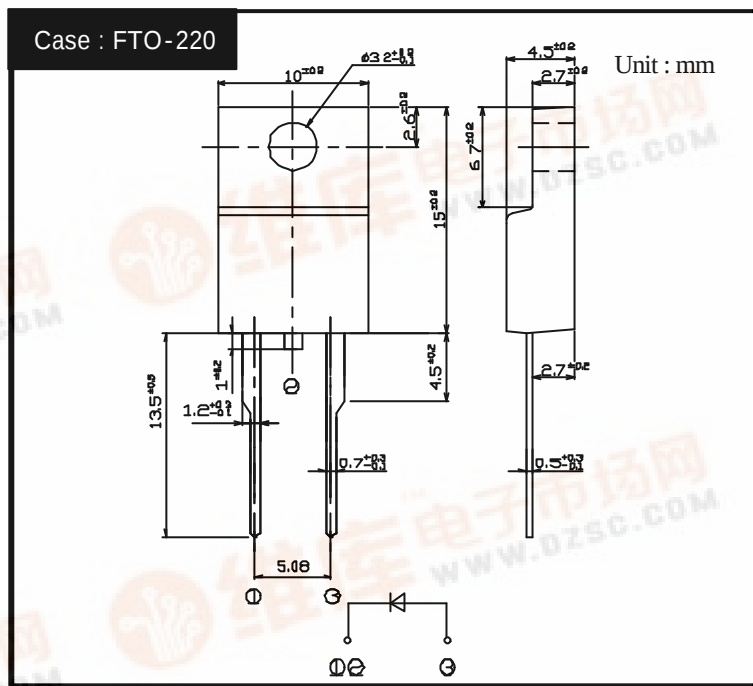
Single

600V 3A

OUTLINE DIMENSIONS

Case : FTO-220

Unit : mm



RATINGS

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

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55 ~ 150	
Operating Junction Temperature	Tj		150	
Max Reverse Voltage	V _{RM}		600	V
Average Rectified Forward Current	I _O	50Hz sine wave, resistance load, Tc=115	3	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25	40	A
Dielectric Strength	V _{dis}	Terminals to case, AC 1 minute	2	kV
Mounting Torque	TOR	()Shows recommended value	0.5(0.3)	N·m

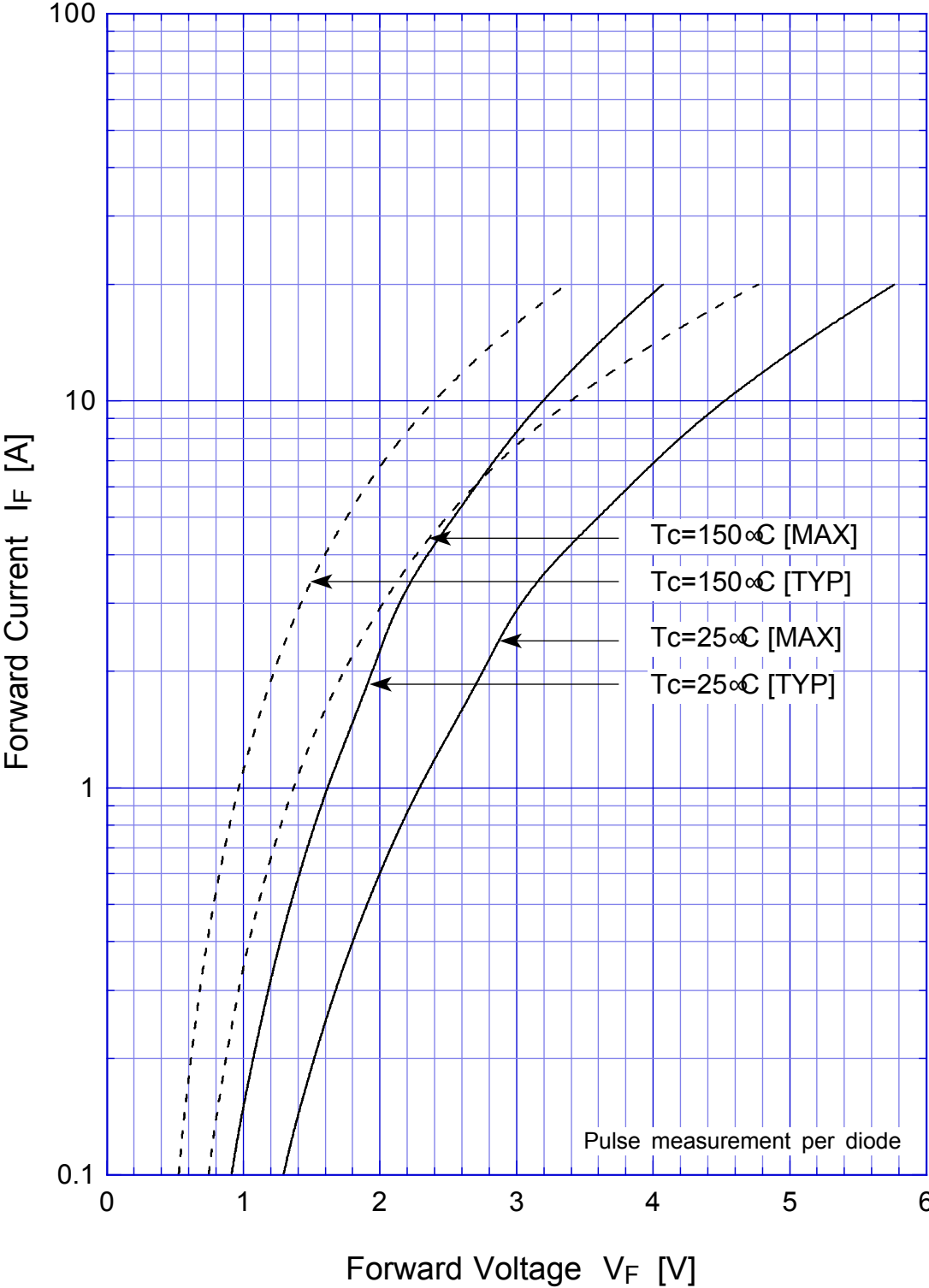
- Electrical Characteristics (If not specified Tc=25)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=3A$, 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.20	pF
Reverse Recovery Time	t_{rr}	$I_F=0.5A$, $I_R=1A$	Max.20	ns
Thermal Resistance	θ_{jc}	Junction to case with heatsink	Max.3.8	/W

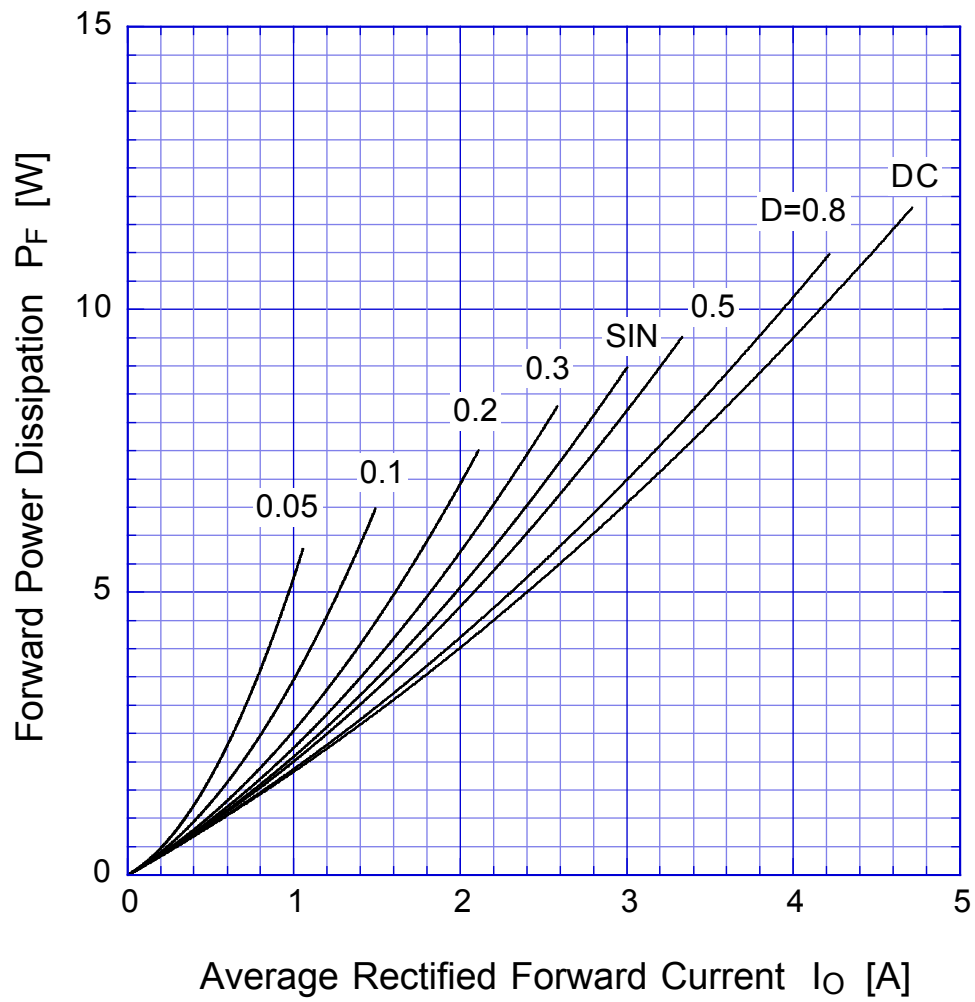


SF3L60U

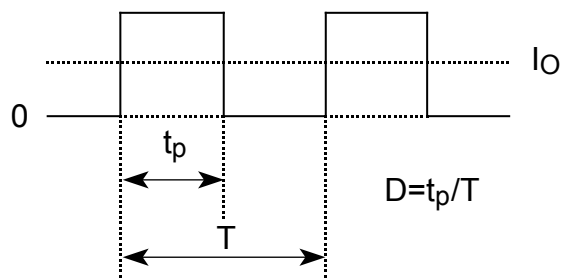
Forward Voltage



SF3L60U Forward Power Dissipation

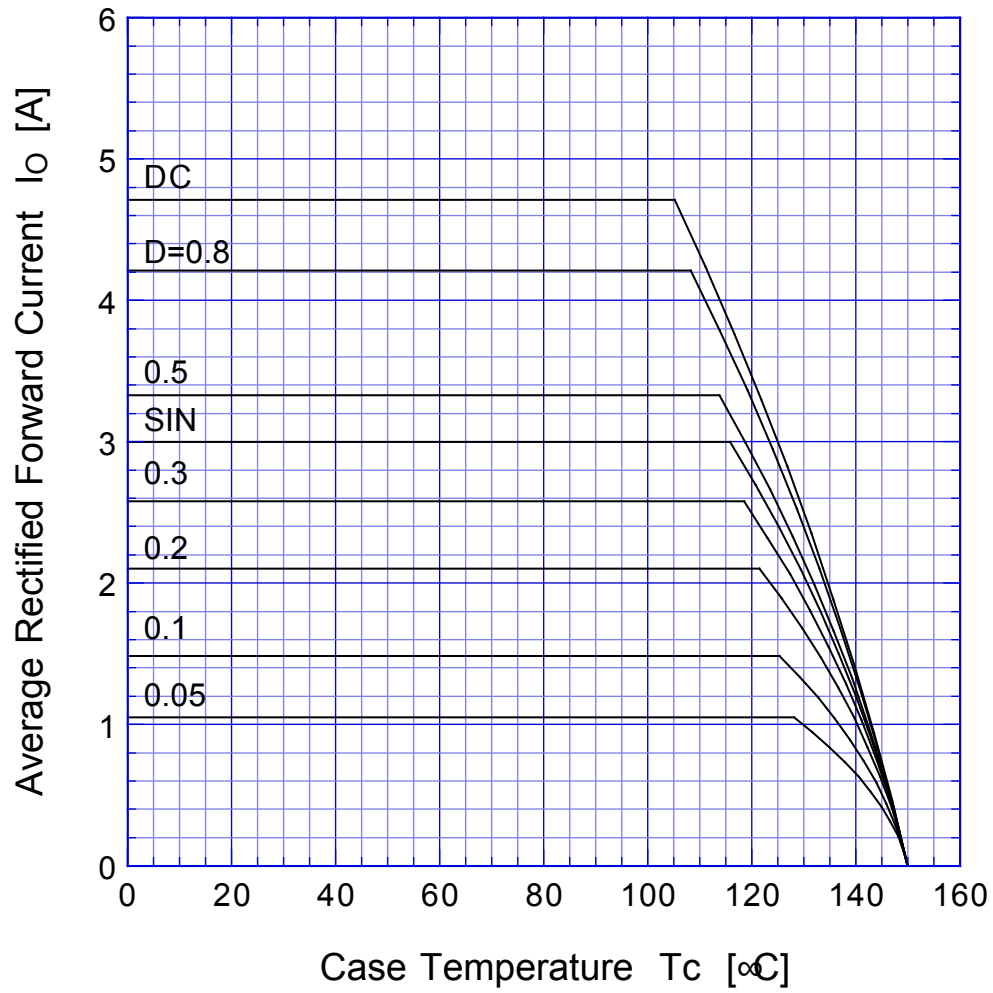


$T_j = 150^\circ\text{C}$

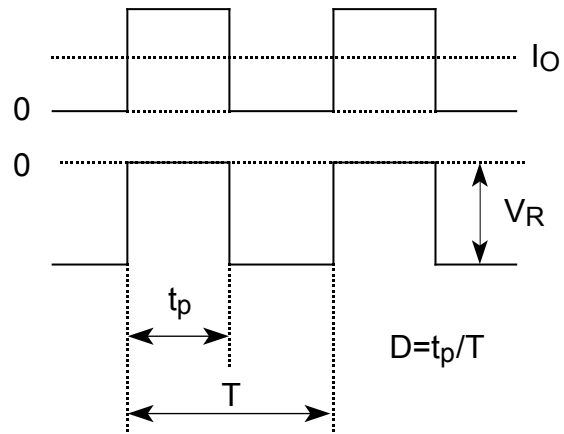


SF3L60U

Derating Curve

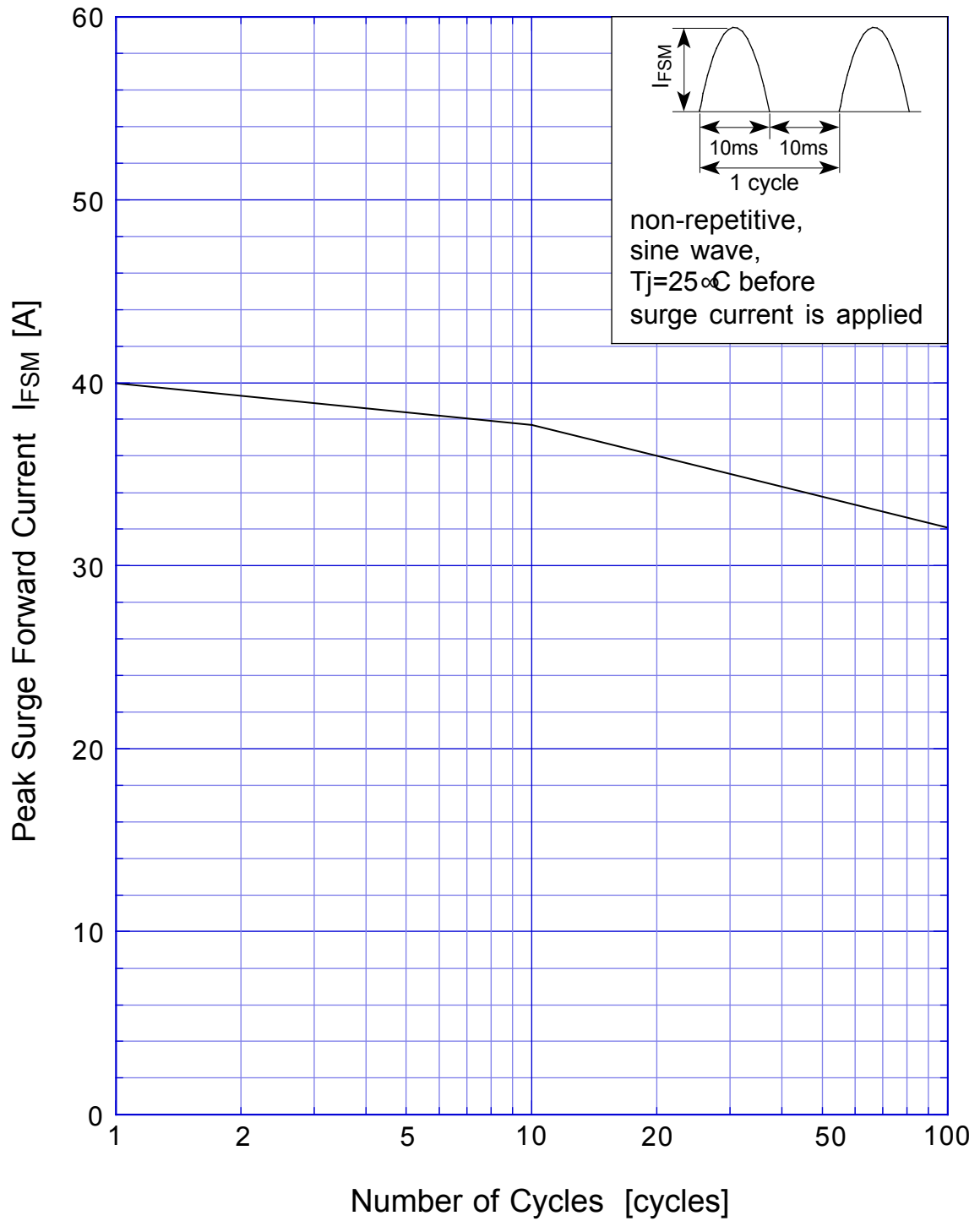


$$V_R = V_{RM}$$



SF3L60U

Peak Surge Forward Capability



SF3L60U Junction Capacitance

