

# SHINDENGEN

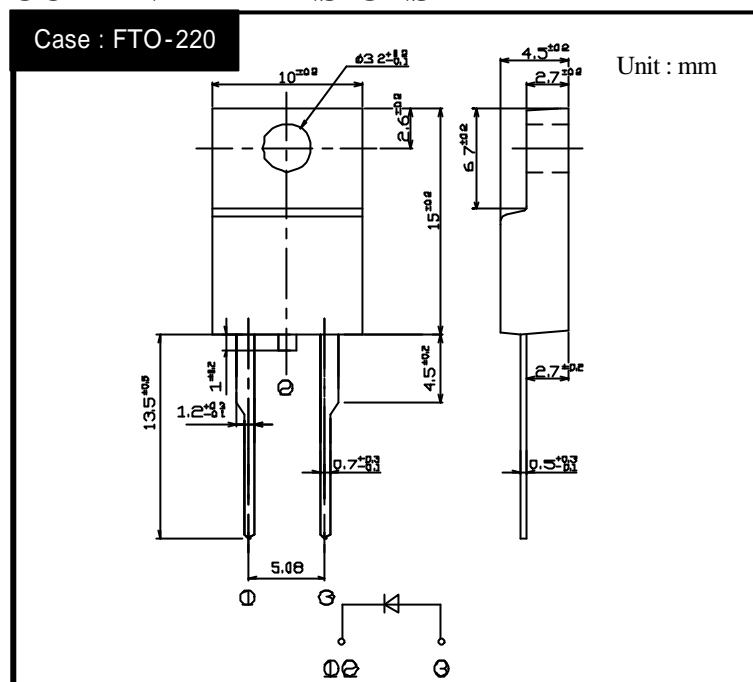
## Super Fast Recovery Rectifiers

Single

# SF10L60U

## 600V 10A

### OUTLINE DIMENSIONS



### RATINGS

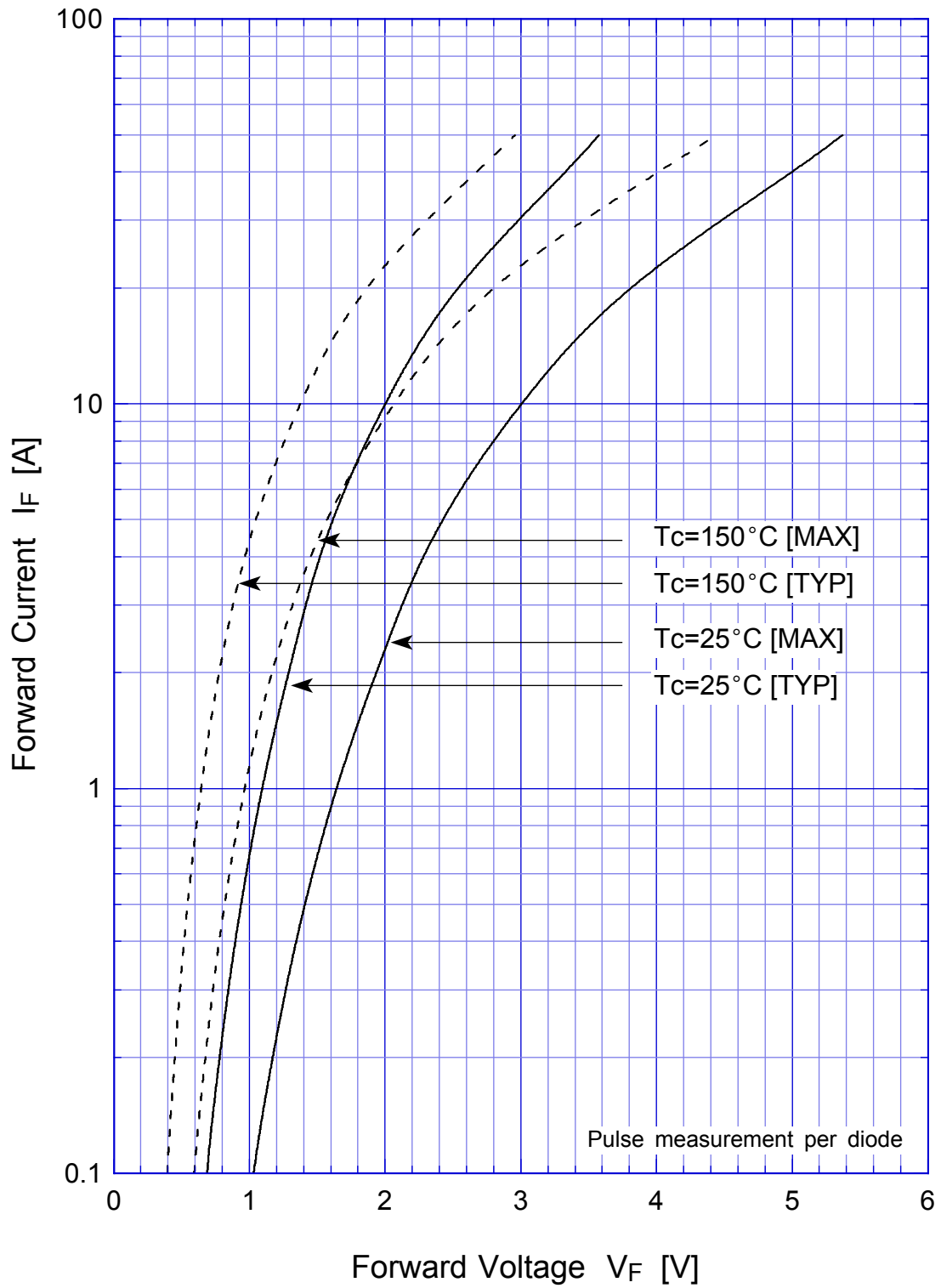
Absolute Maximum Ratings (If not specified  $T_c=25$  )

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	$T_{stg}$		-55 ~ 150	
Operating Junction Temperature	$T_j$		150	
Peak Reverse Voltage	$V_{RM}$		600	V
Average Rectified Forward Current	$I_o$	50Hz sine wave, resistance load, $T_c=85$	10	A
Peak Surge Forward Current	$I_{FSM}$	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25$	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

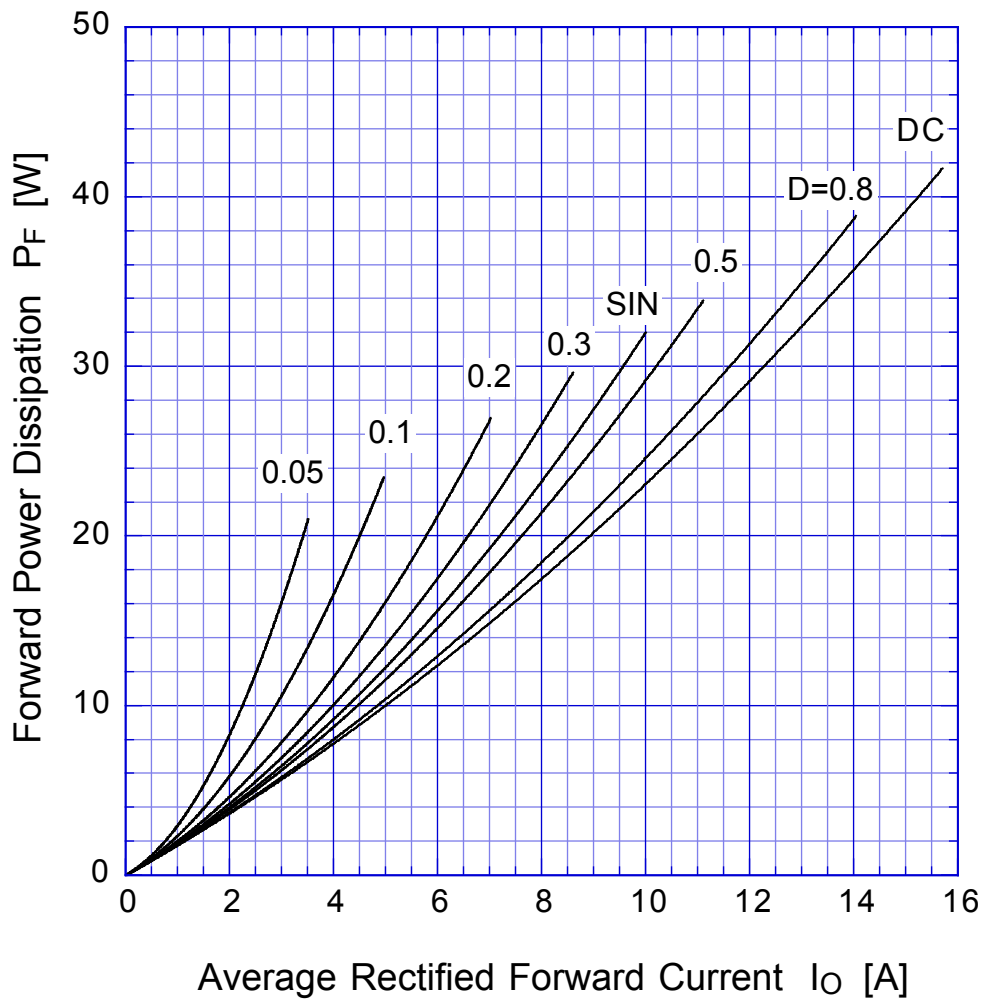
Electrical Characteristics (If not specified  $T_c=25$  )

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	$\mu A$
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	$\theta_c$	junction to case	Max.2.0	/W

# SF10L60U Forward Voltage



## SF10L60U Forward Power Dissipation

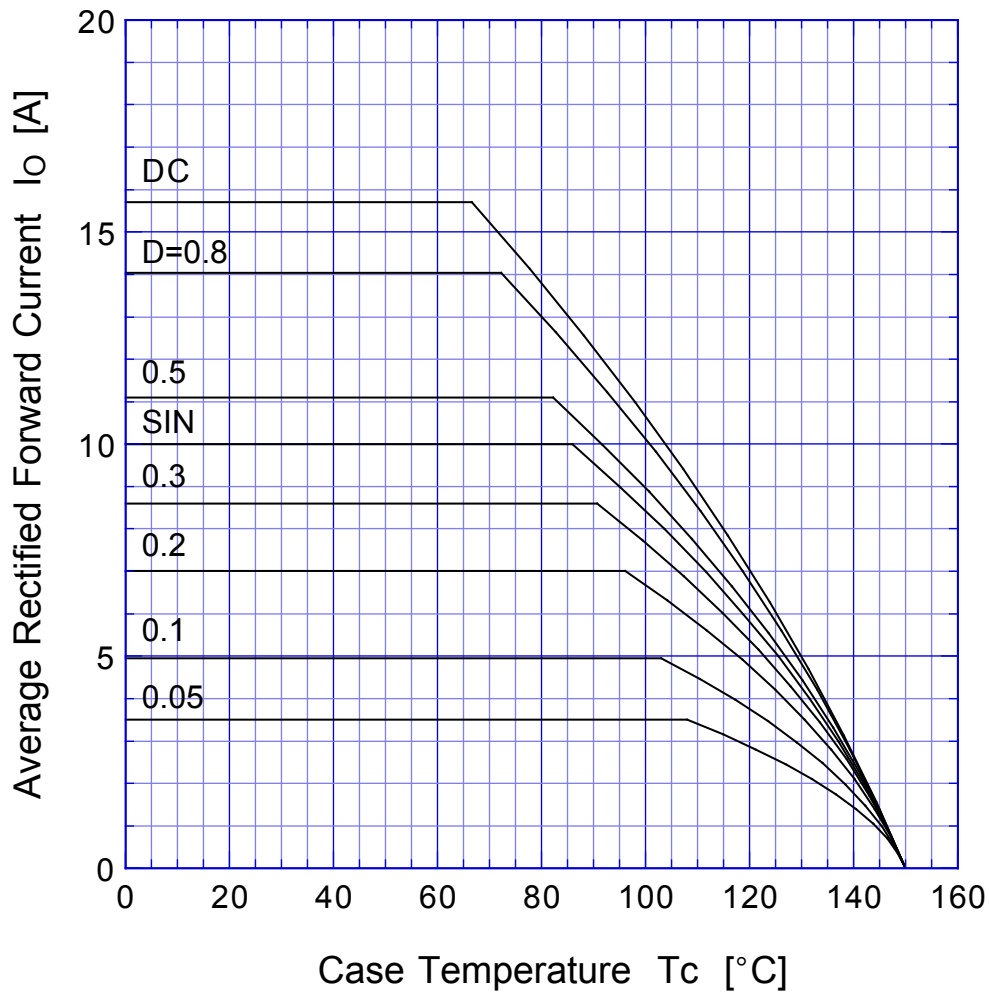


$T_j = 150^\circ\text{C}$



# SF10L60U

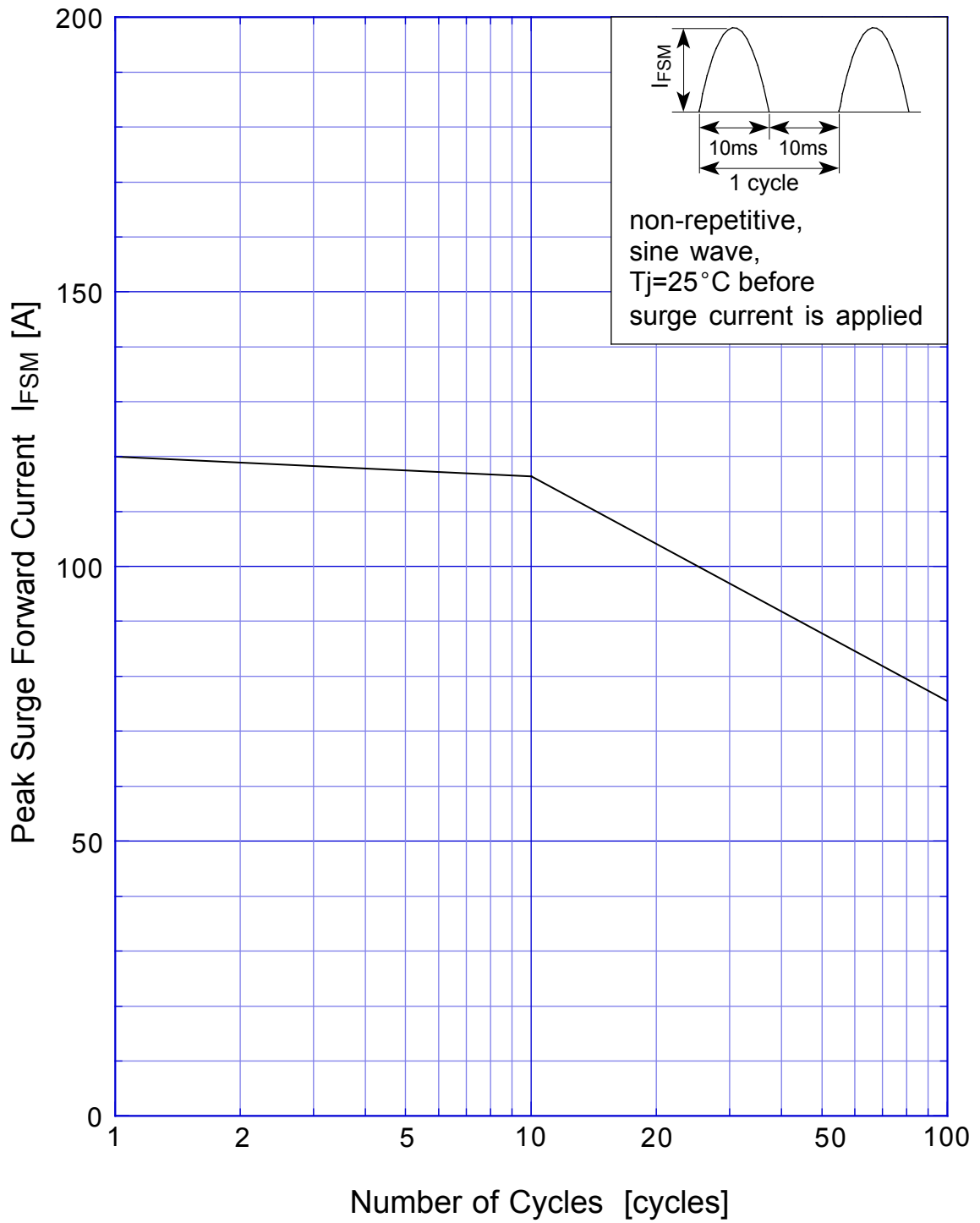
# Derating Curve



$$V_R = V_{RM}$$



# SF10L60U Peak Surge Forward Capability



# SF10L60U Junction Capacitance

