

# SHINDENGEN

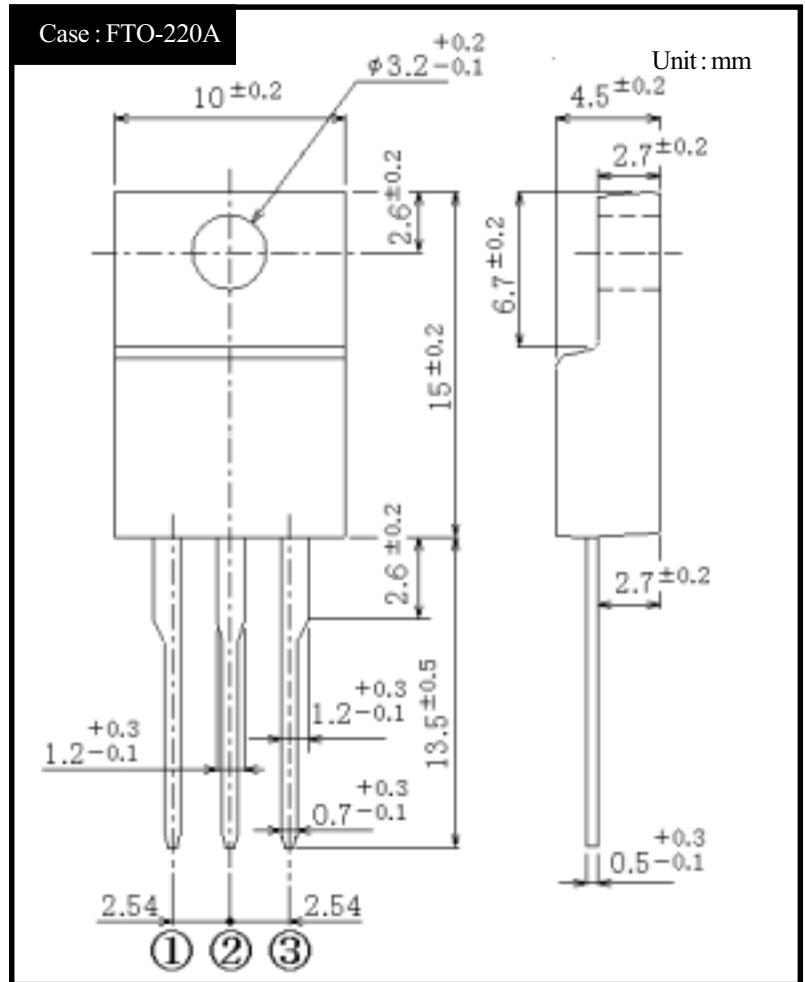
## Schottky Rectifiers (SBD)

Dual

# SF20NC15M

150V 20A

### OUTLINE DIMENSIONS



### RATINGS

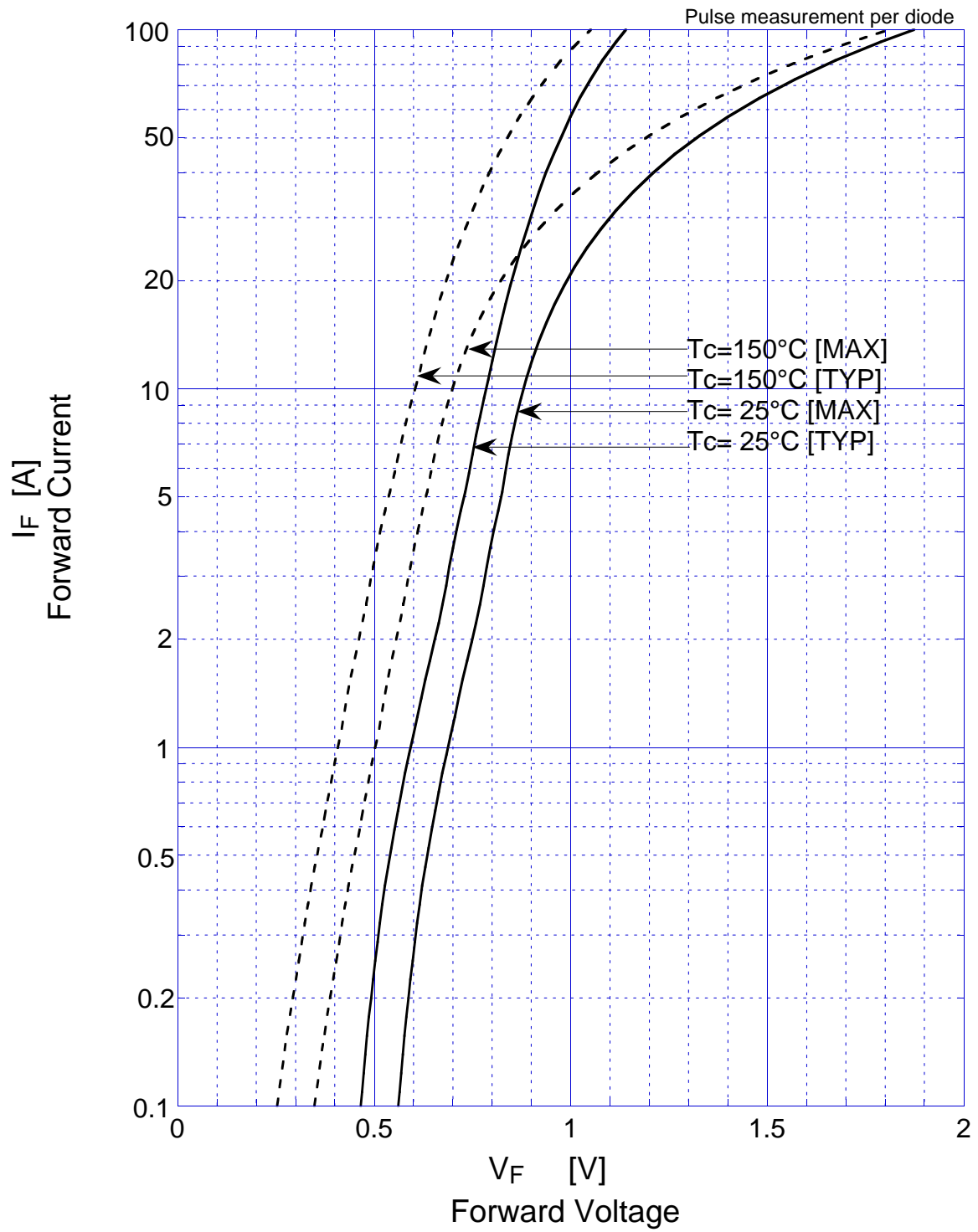
Absolute Maximum Ratings ( $T_c=25^\circ\text{C}$  unless otherwise specified)

Item	Symbol	Conditions	Ratings	Units
Storage Temperature	$T_{stg}$		-55 to 150	$^\circ\text{C}$
Operating Junction Temperature	$T_j$		150	$^\circ\text{C}$
Maximum Reverse Voltage	$V_{RM}$		150	V
Average Rectified Forward Current	$I_o$	50Hz sine wave, Resistance load, Rating for each diode $I_o/2$ , $T_c=118^\circ\text{C}$	20	A
Peak Surge Forward Current	$I_{FSM}$	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^\circ\text{C}$	200	A
Dielectric Strength	$V_{dis}$	Terminals to case, AC 1 minute	2	kV
Mounting Torque	TOR	(Recommended torque: 0.3N·m)	0.5	N·m

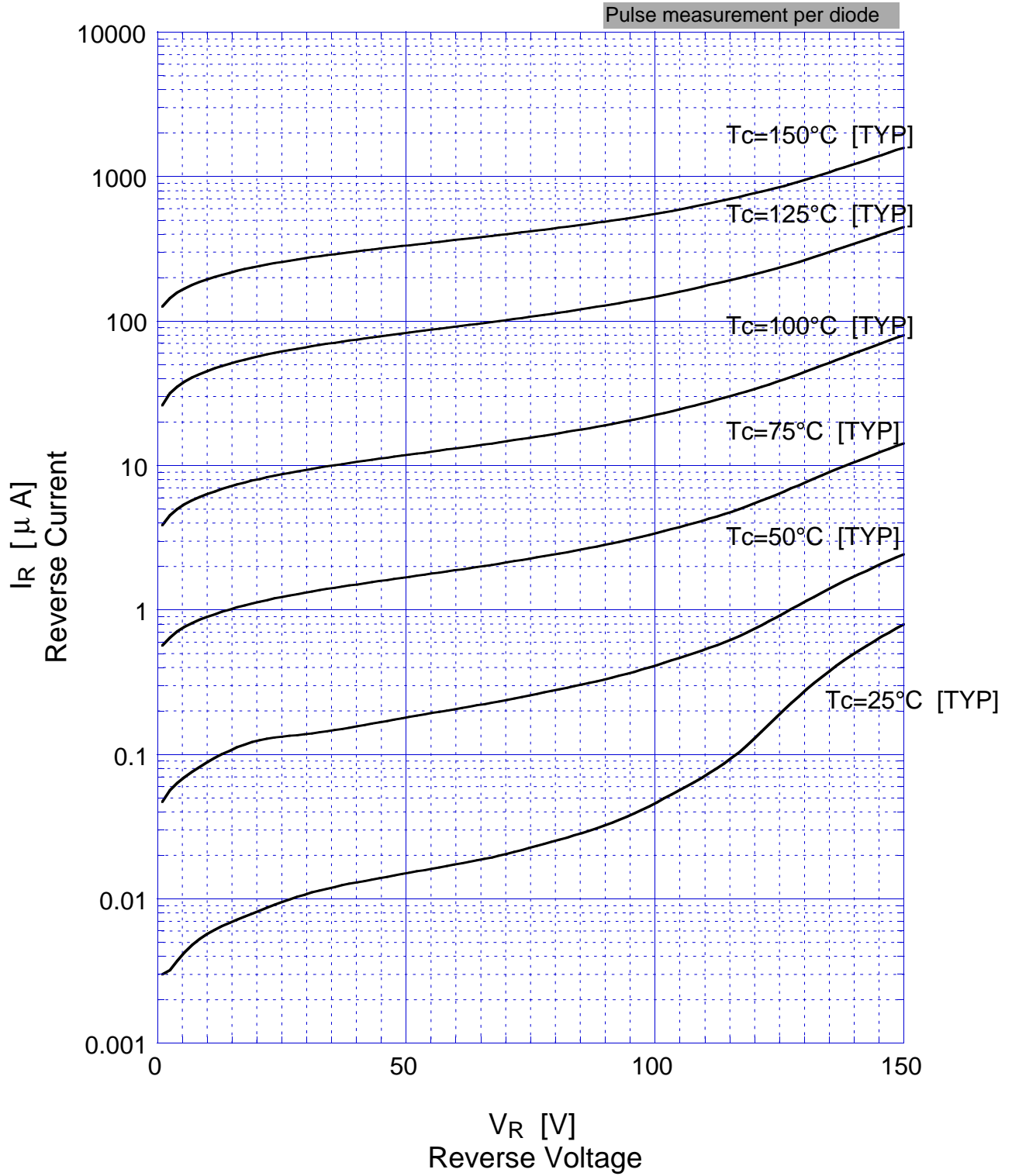
Electrical Characteristics ( $T_c=25^\circ\text{C}$  unless otherwise specified)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	$V_F$	$I_F=10\text{A}$ , Pulse measurement, Rating of per diode	Max. 0.88	V
Reverse Current	$I_R$	$V_R=150\text{V}$ , Pulse measurement, Rating of per diode	Max. 0.4	mA
Junction Capacitance	$C_j$	$f=1\text{MHz}$ , $V_R=10\text{V}$ , Rating of per diode	Typ. 200	pF
Thermal Resistance	$\theta_{jc}$	junction to case	Max. 1.8	$^\circ\text{C/W}$

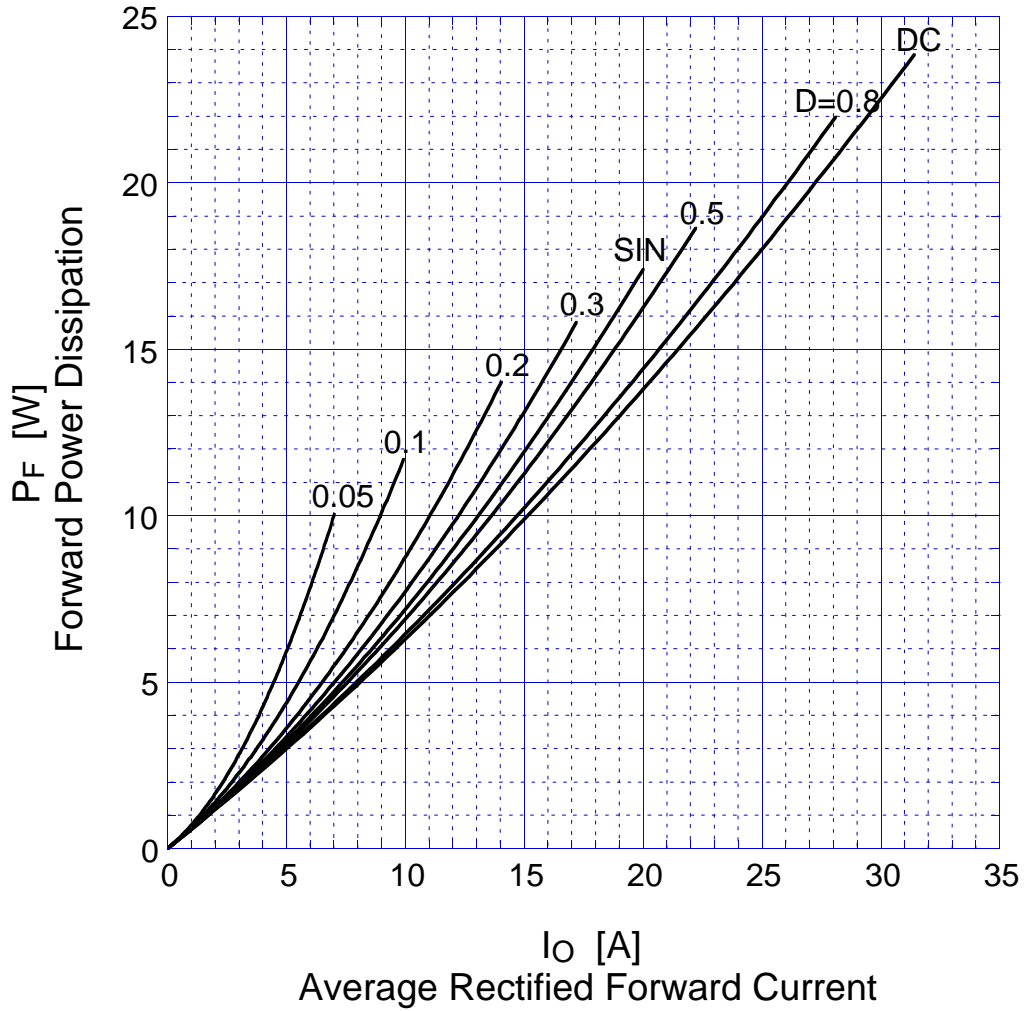
# SF20NC15M Forward Voltage



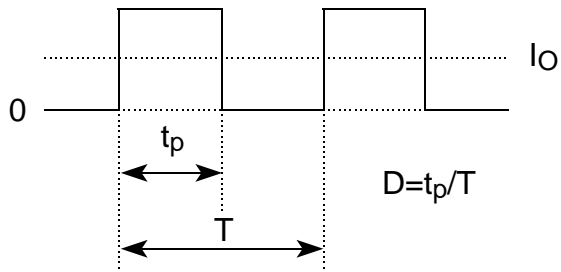
# SF20NC15M Reverse Current



# SF20NC15M Forward Power Dissipation

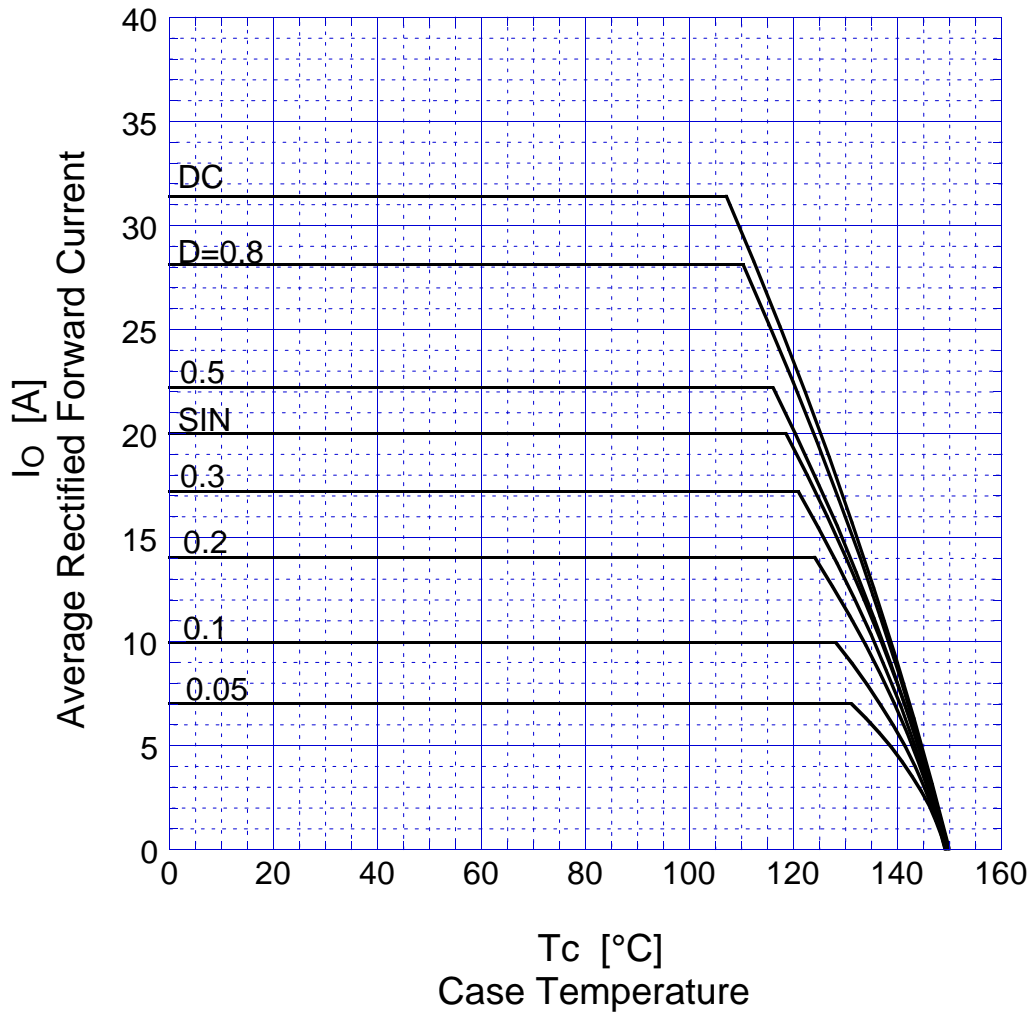


$T_j = 150^\circ\text{C}$

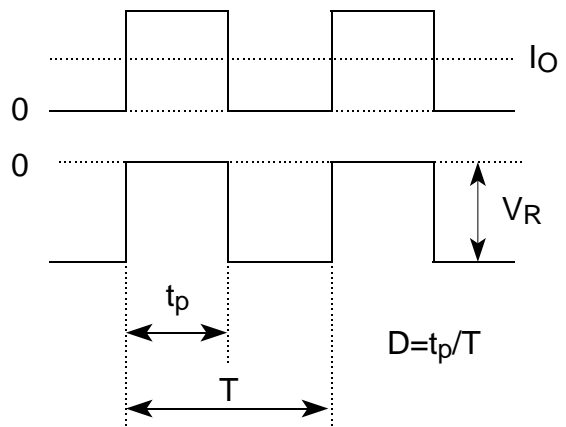


# SF20NC15M

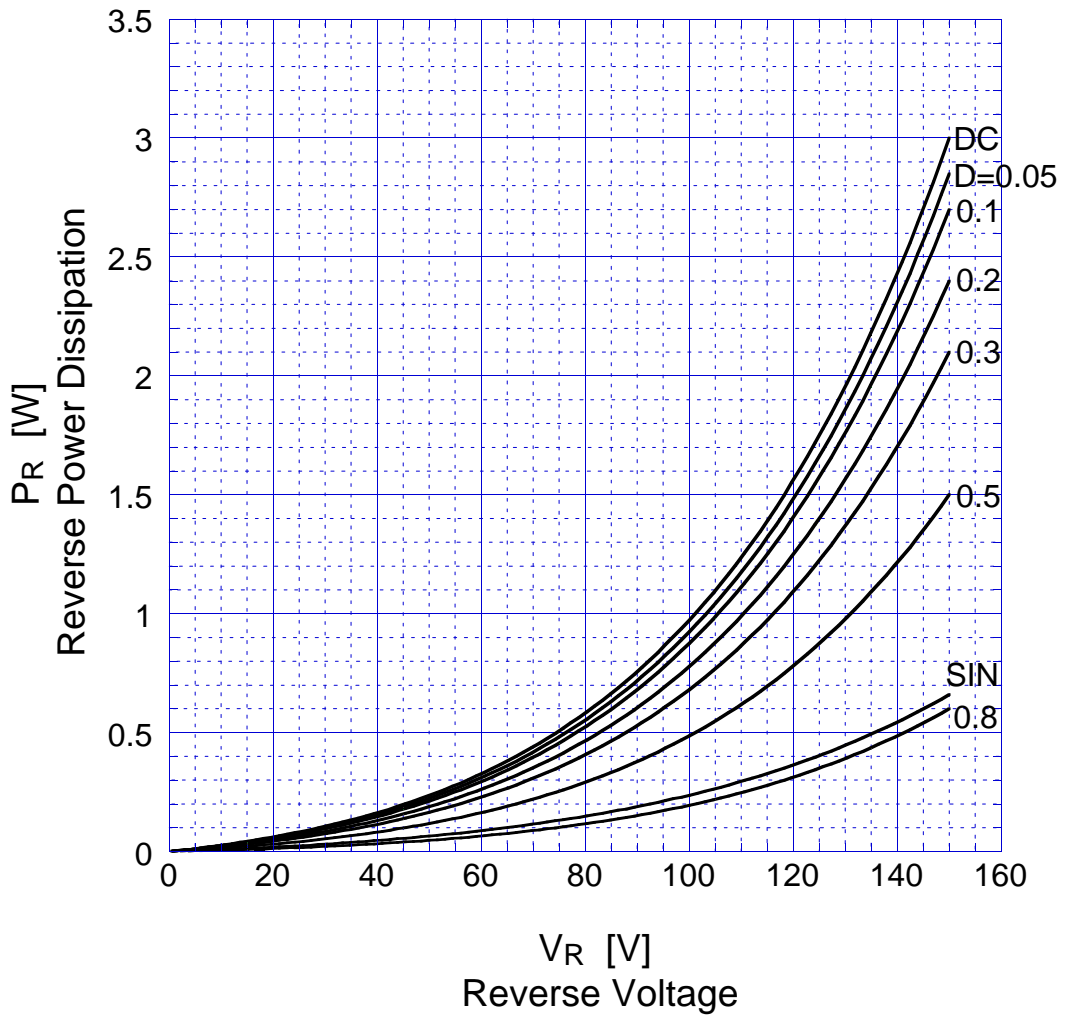
# Derating Curve



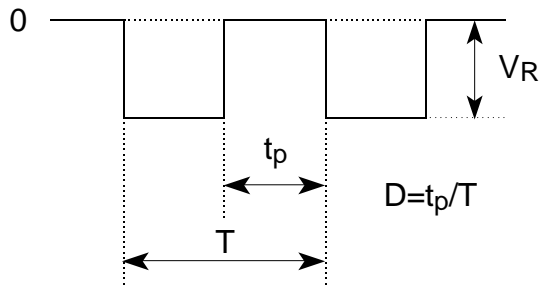
$V_R = 75V$



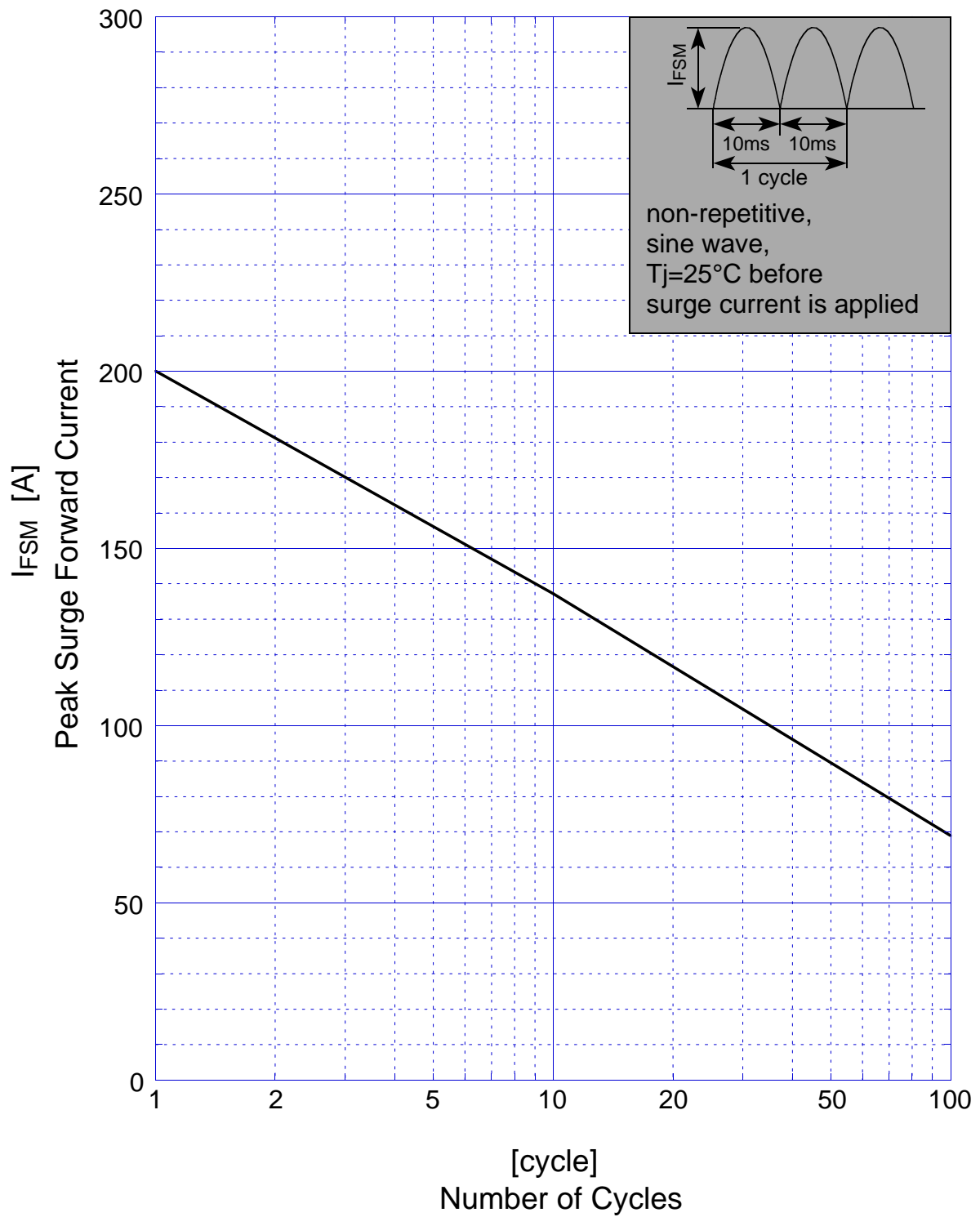
# SF20NC15M Reverse Power Dissipation



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



# SF20NC15M Peak Surge Forward Capability



# SF20NC15M Junction Capacitance

