

# SHINDENGEN

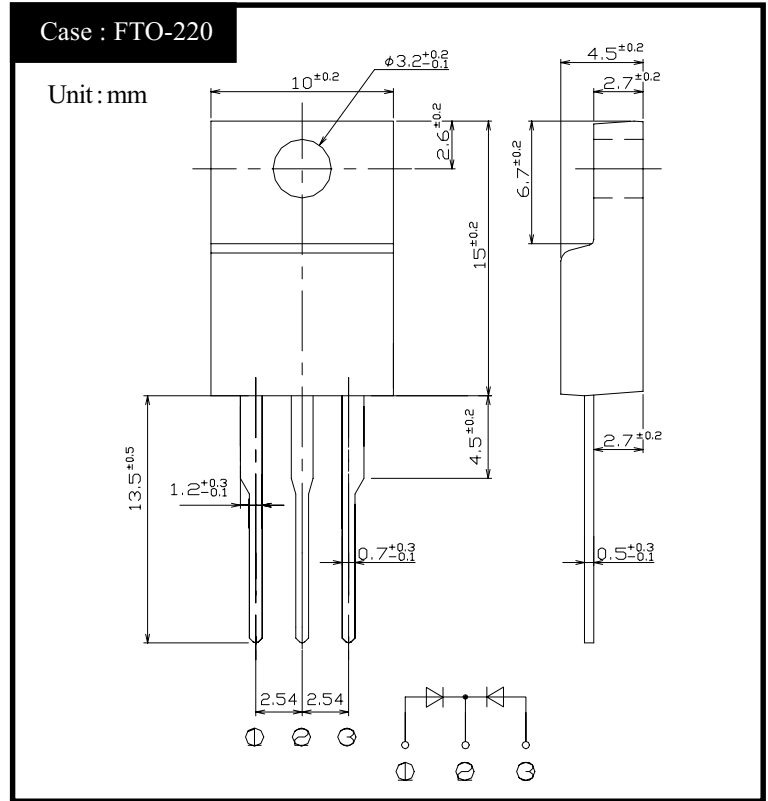
## Schottky Rectifiers (SBD)

Dual

# SF10JC6

## 60V 10A

### OUTLINE DIMENSIONS



### RATINGS

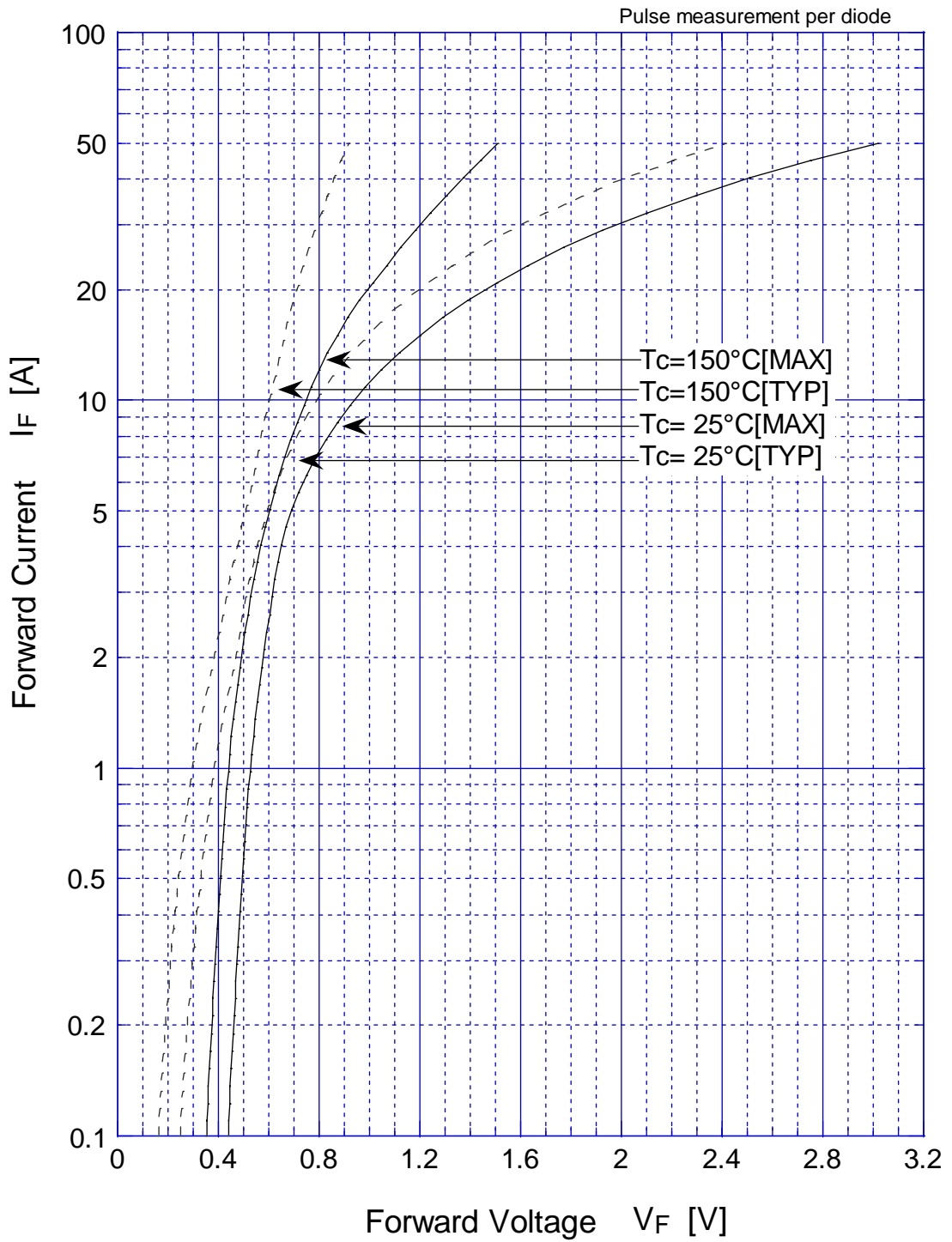
Absolute Maximum Ratings (Tc=25°C unless otherwise specified)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55 to 150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V <sub>RM</sub>		60	V
Average Rectified Forward Current	I <sub>O</sub>	50Hz sine wave, R-load, Rating for each diode I <sub>O</sub> /2, T <sub>c</sub> = 129°C	10	A
Peak Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, T <sub>j</sub> = 25°C	100	A
Dielectric Strength	V <sub>dis</sub>	Terminals to case, AC 1 minute	2.0	kV
Mounting Torque	TOR	(Recommended torque: 0.3N·m)	0.5	N·m

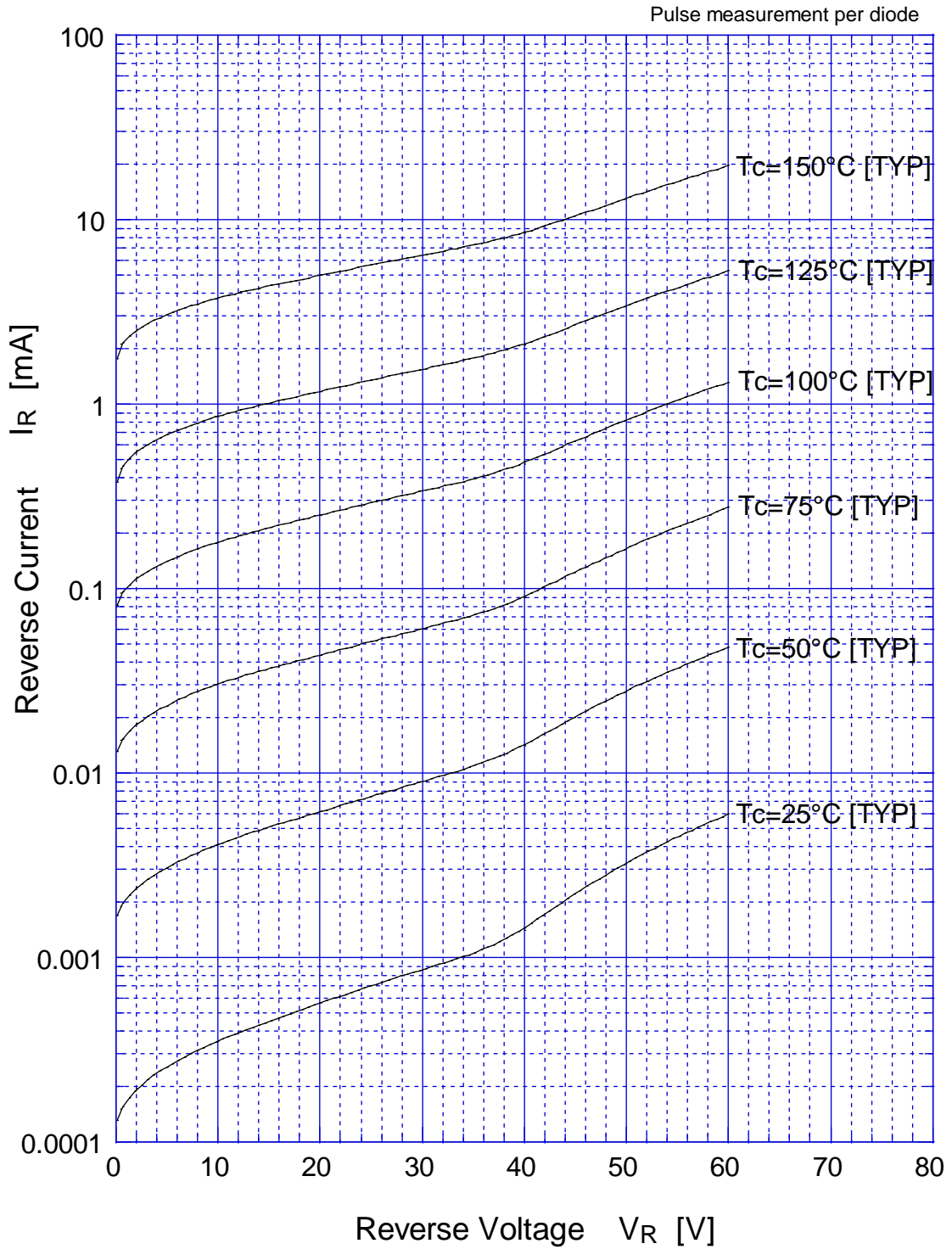
Electrical Characteristics (Tc=25°C unless otherwise specified)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 5A, Pulse measurement, Rating of per diode	Max 0.69	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = V <sub>RM</sub> , Pulse measurement, Rating of per diode	Max 0.7	mA
Junction Capacitance	C <sub>j</sub>	f = 1MHz, V <sub>R</sub> = 10V, Rating of per diode	Typ 200	pF
Thermal Resistance	θ <sub>jc</sub>	junction to case	Max 2.3	°C/W

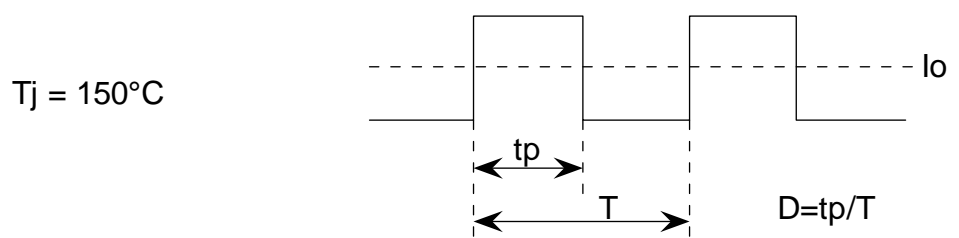
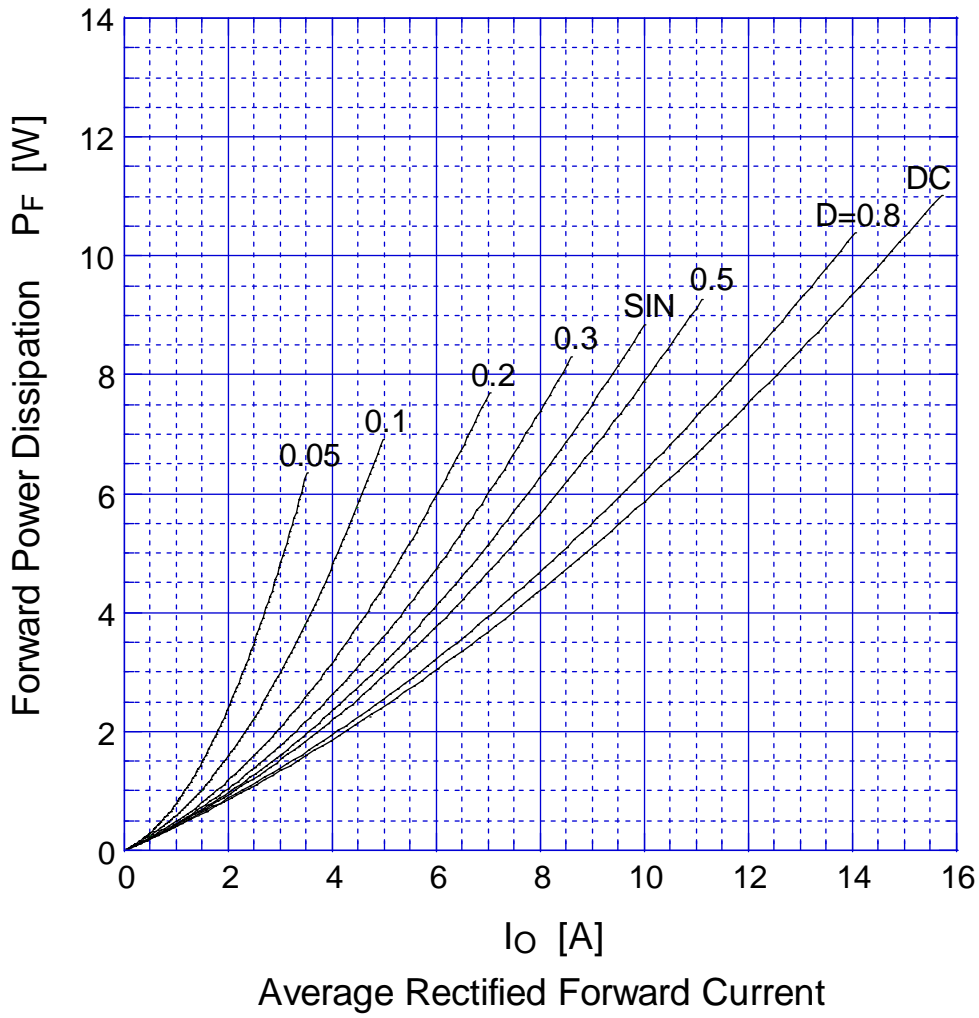
# SF10JC6 Forward Voltage



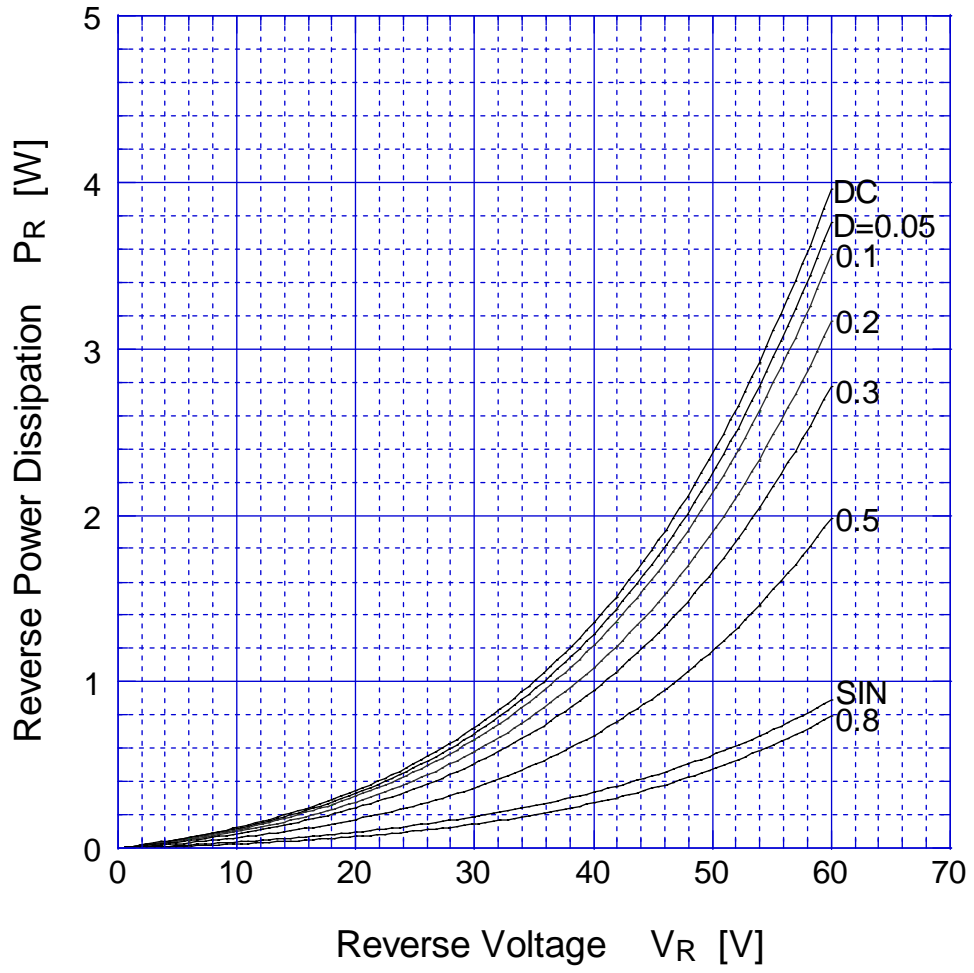
# SF10JC6 Reverse Current



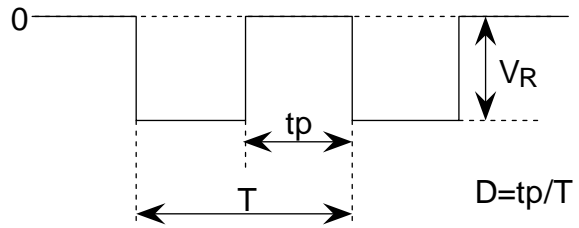
# SF10JC6 Forward Power Dissipation



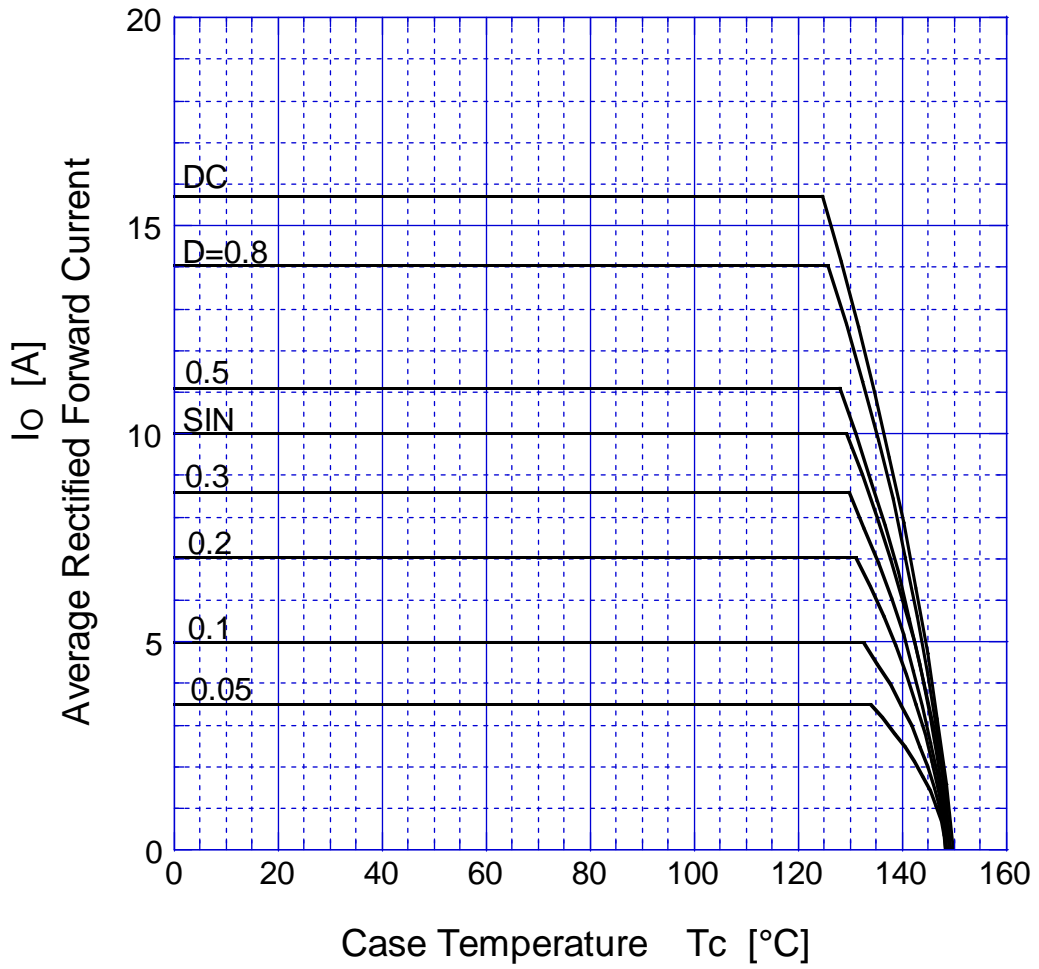
# SF10JC6 Reverse Power Dissipation



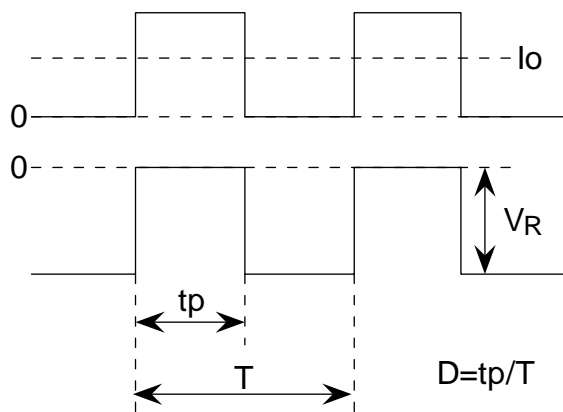
$T_j = 150^\circ\text{C}$



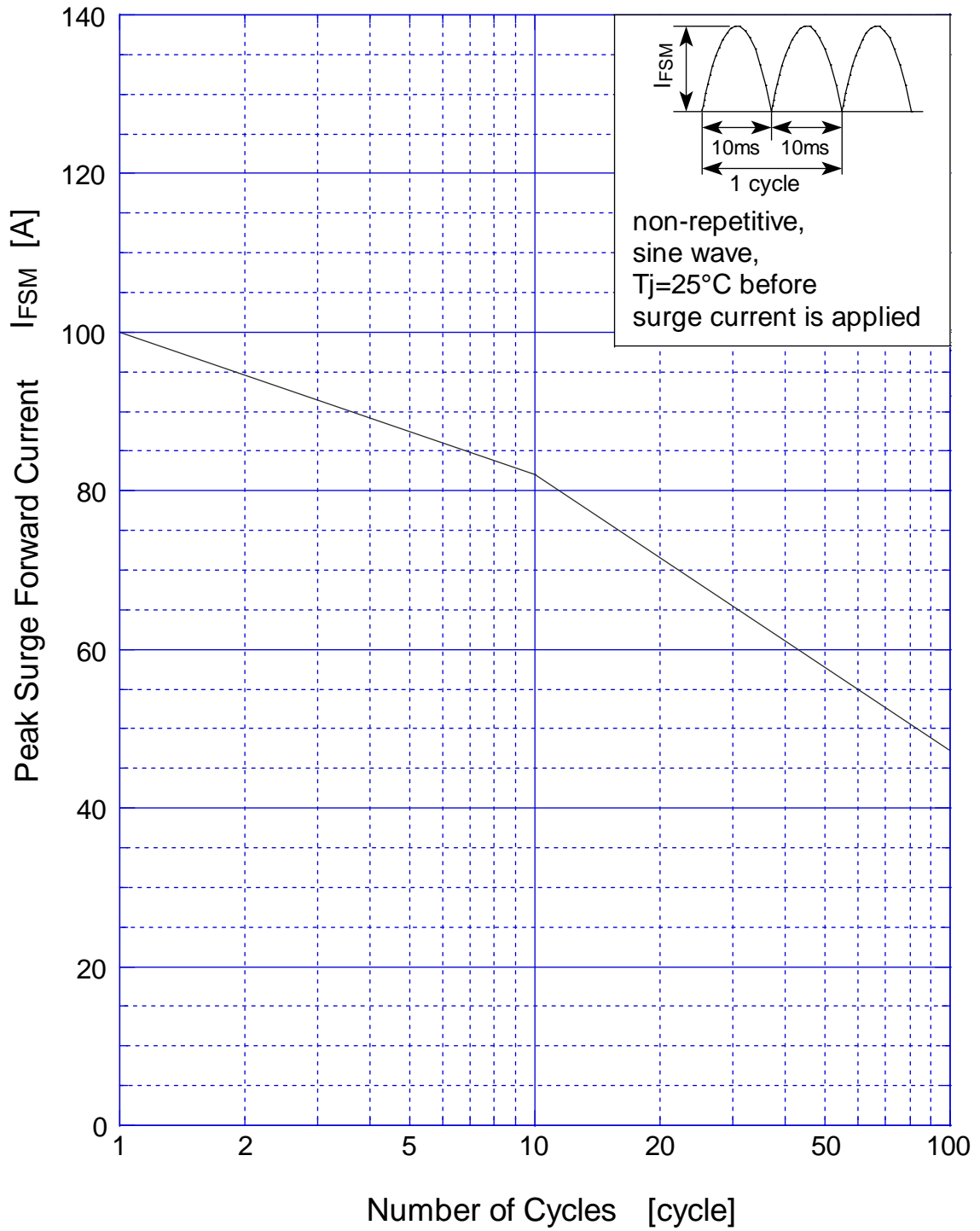
# SF10JC6 Derating Curve



$V_R = 30V$



# SF10JC6 Peak Surge Forward Capability



# SF10JC6 Junction Capacitance

