

# SHINDENGEN

## Schottky Rectifiers (SBD)

Dual

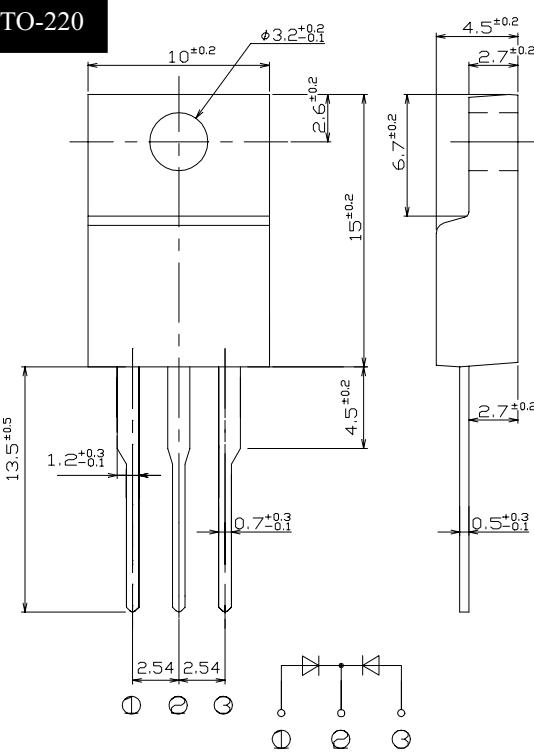
**SF30JC6**

**60V 30A**

### OUTLINE DIMENSIONS

Case : FTO-220

Unit : mm



## RATINGS

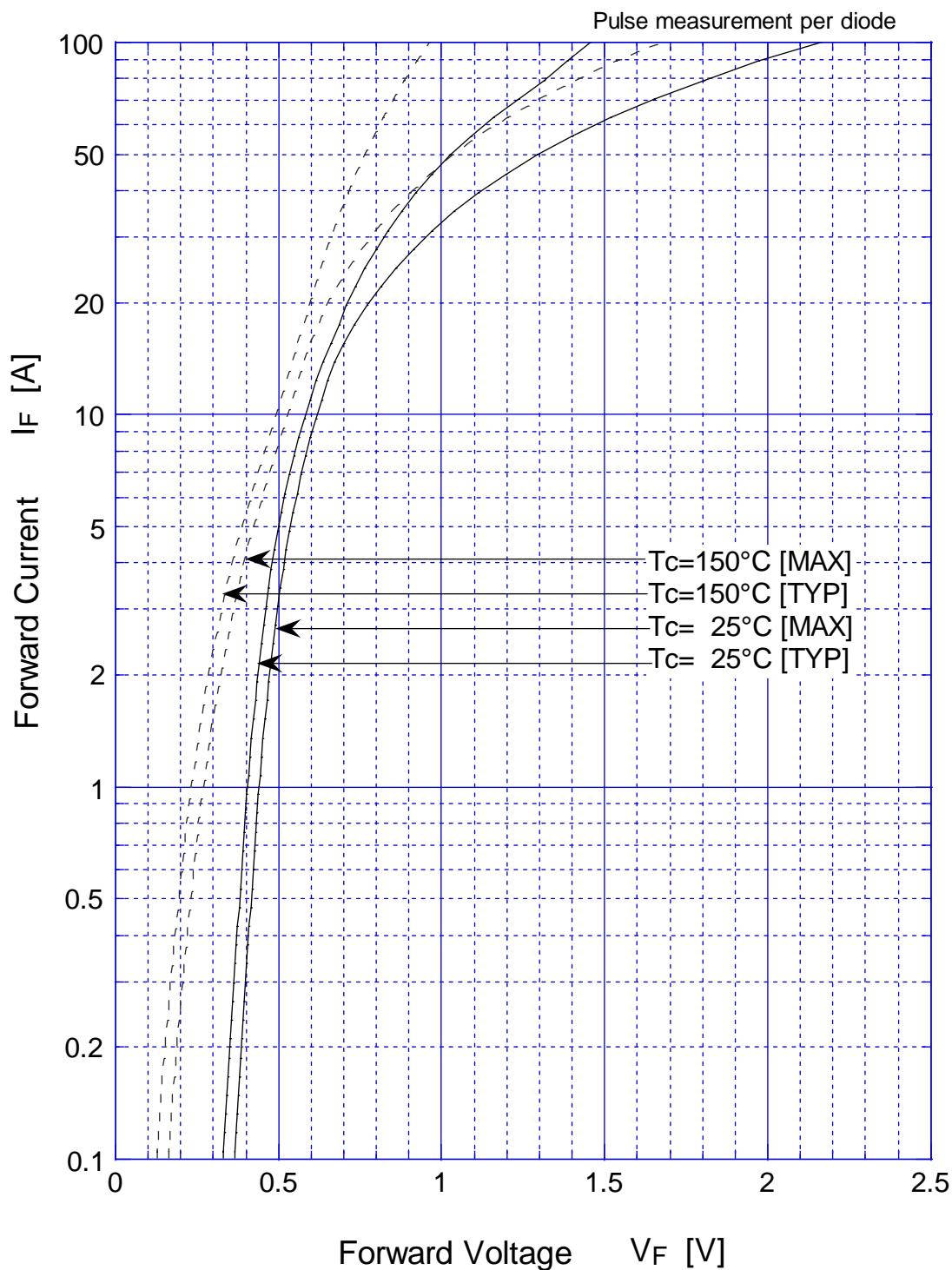
### ● Absolute Maximum Ratings (Unless otherwise specified, Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V <sub>RM</sub>		60	V
Repetitive Peak Surge Reverse Voltage	V <sub>RRSM</sub>	Pulse width 0.5ms, duty 1/40	65	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> =97°C	30	A
Peak Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, T <sub>j</sub> =25°C	250	A
Dielectric Strength	V <sub>dis</sub>	Terminals to case, AC 1 minute	2	kV
Mounting Torque	T <sub>OR</sub>	(Recommended torque: 0.3N·m)	0.5	N·m

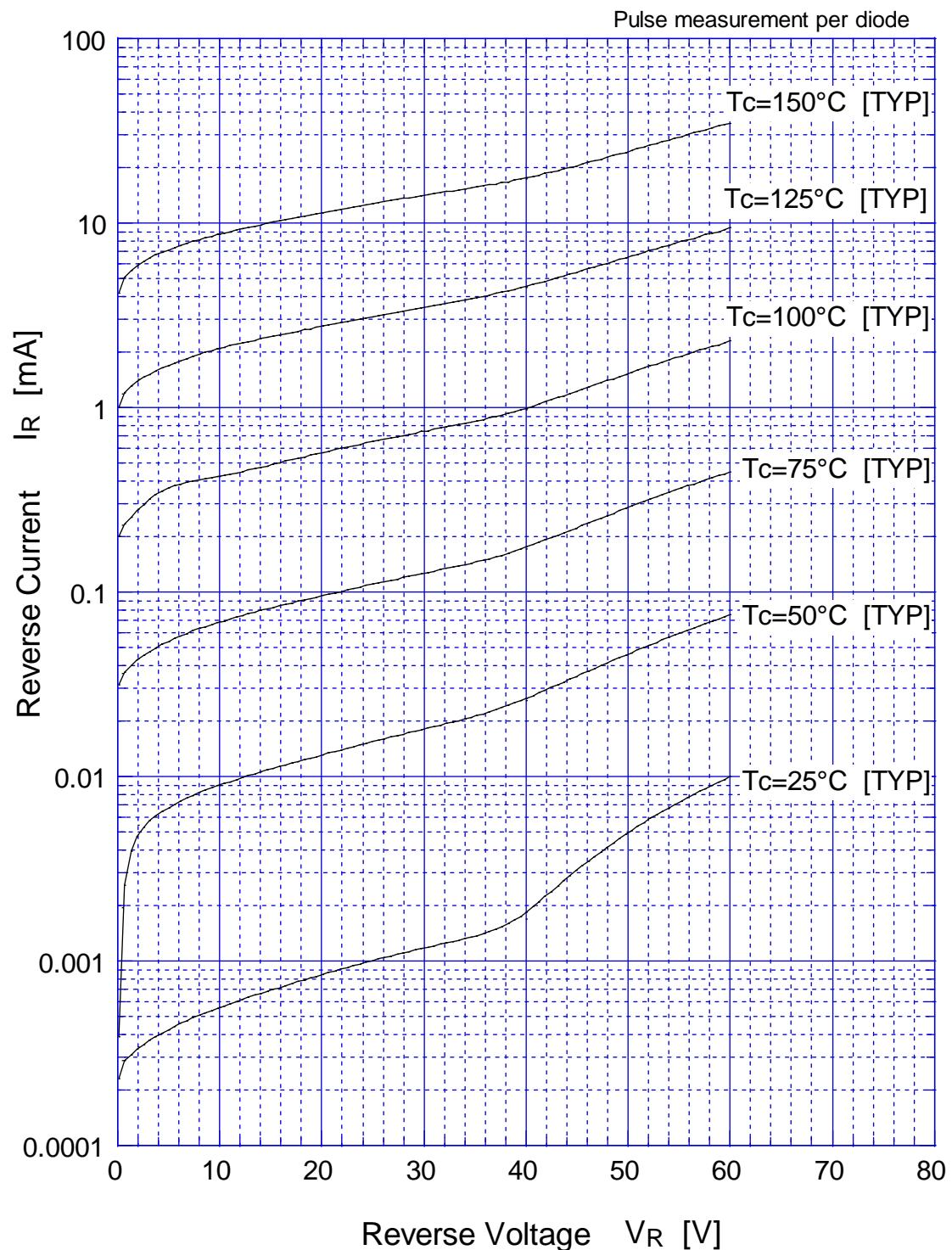
### ● Electrical Characteristics (Unless otherwise specified, Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =15A, 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 490	pF
Thermal Resistance	θ <sub>jc</sub>	junction to case	Max 2.0	°C/W

# SF30JC6 Forward Voltage

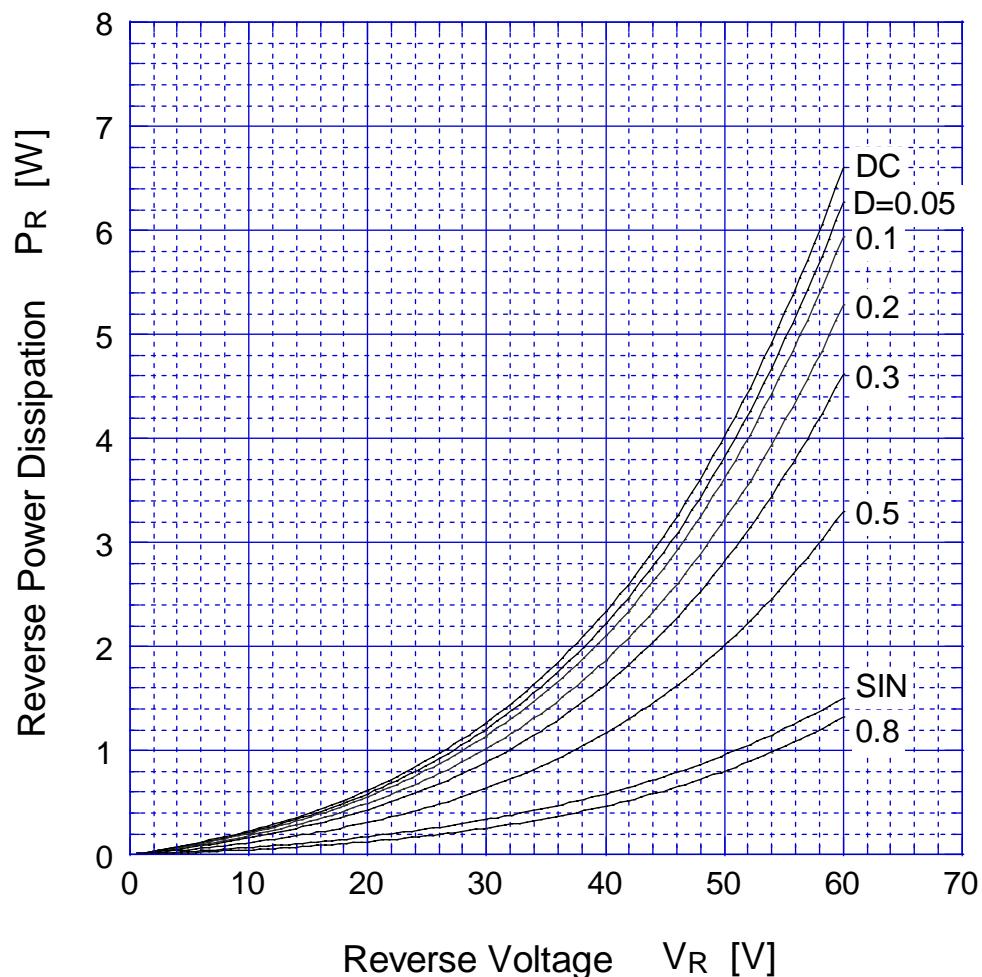


## SF30JC6 Reverse Current

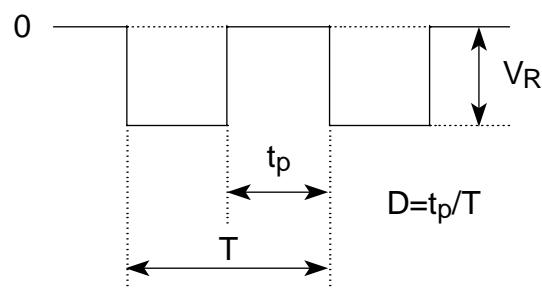


# SF30JC6

## Reverse Power Dissipation

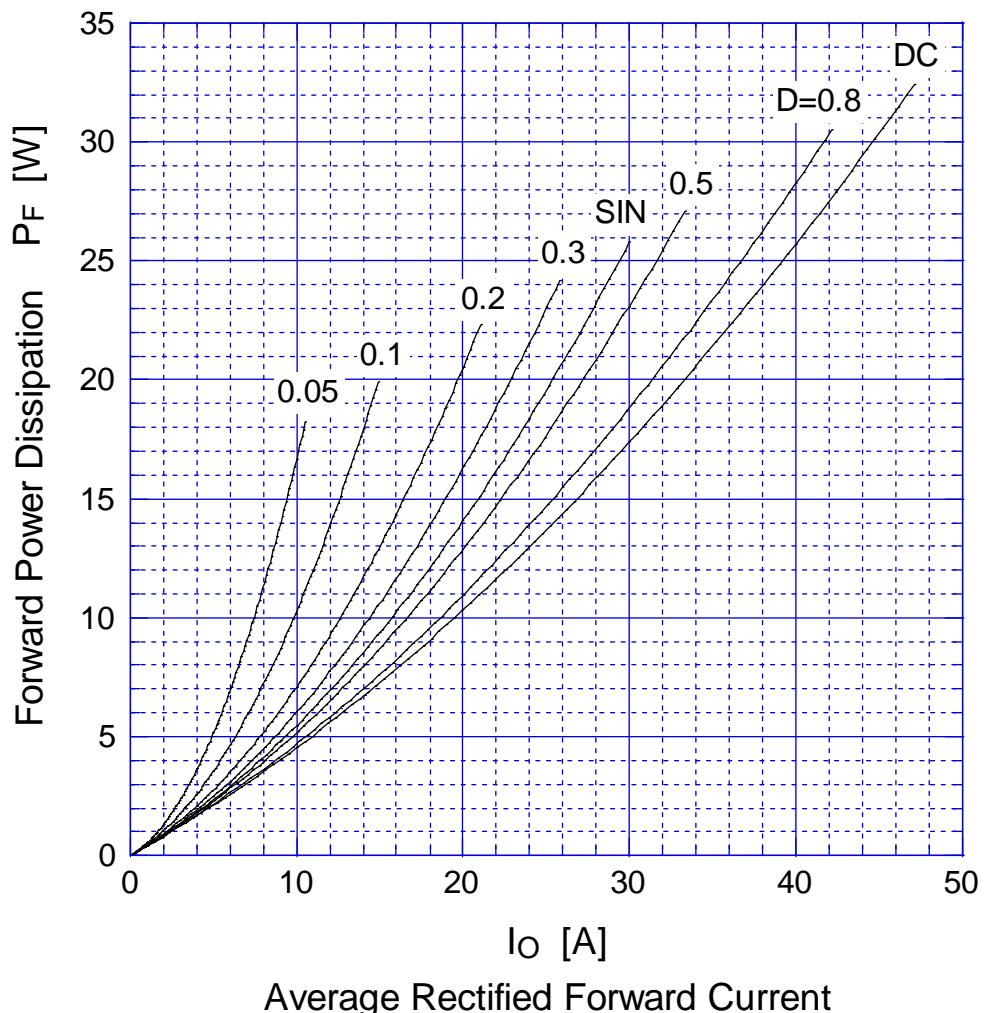


$T_J = 150^\circ\text{C}$

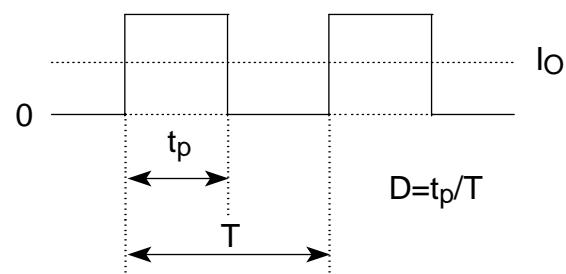


## SF30JC6      Forward Power Dissipation

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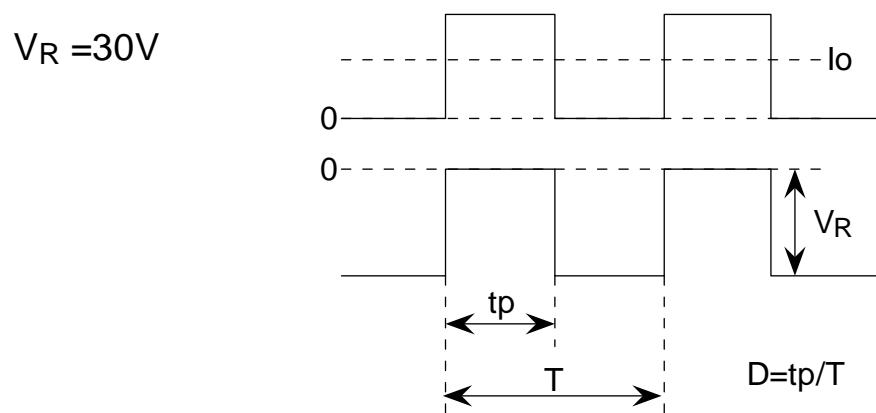
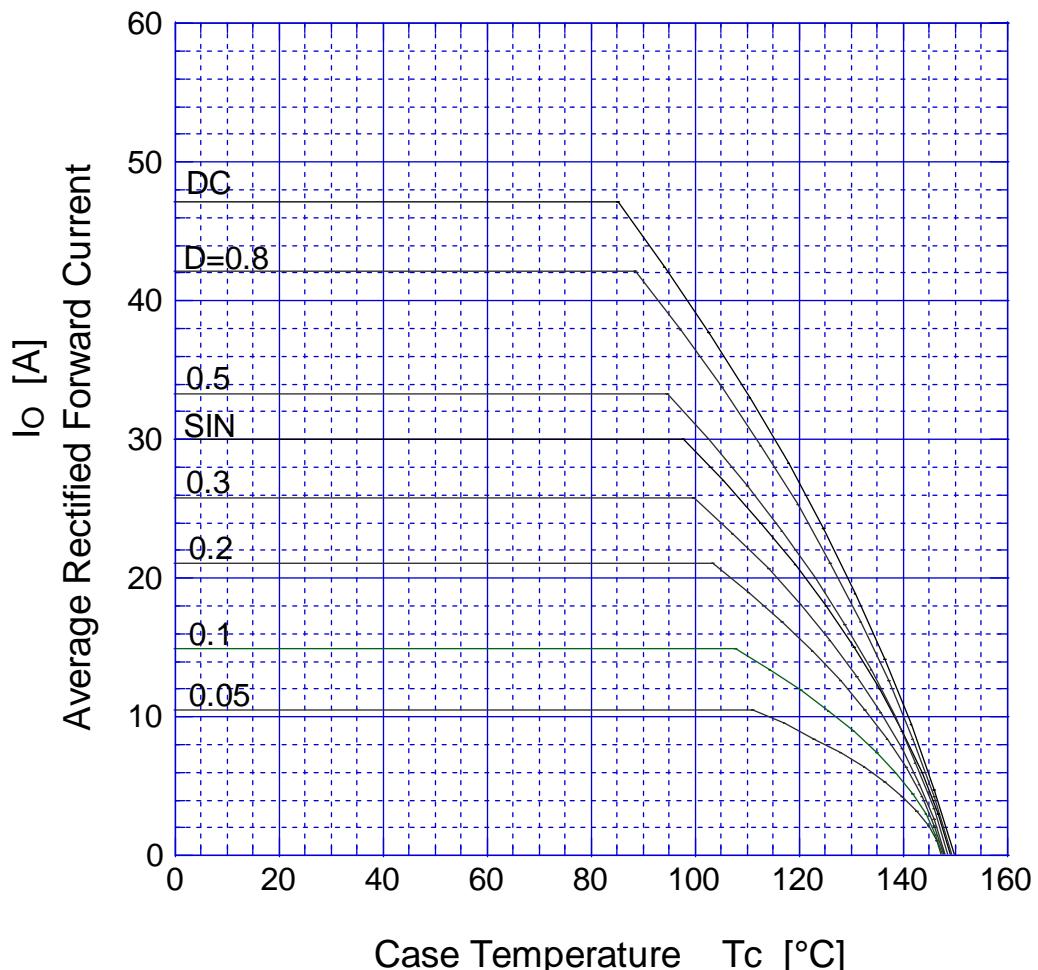


$T_j = 150^\circ\text{C}$

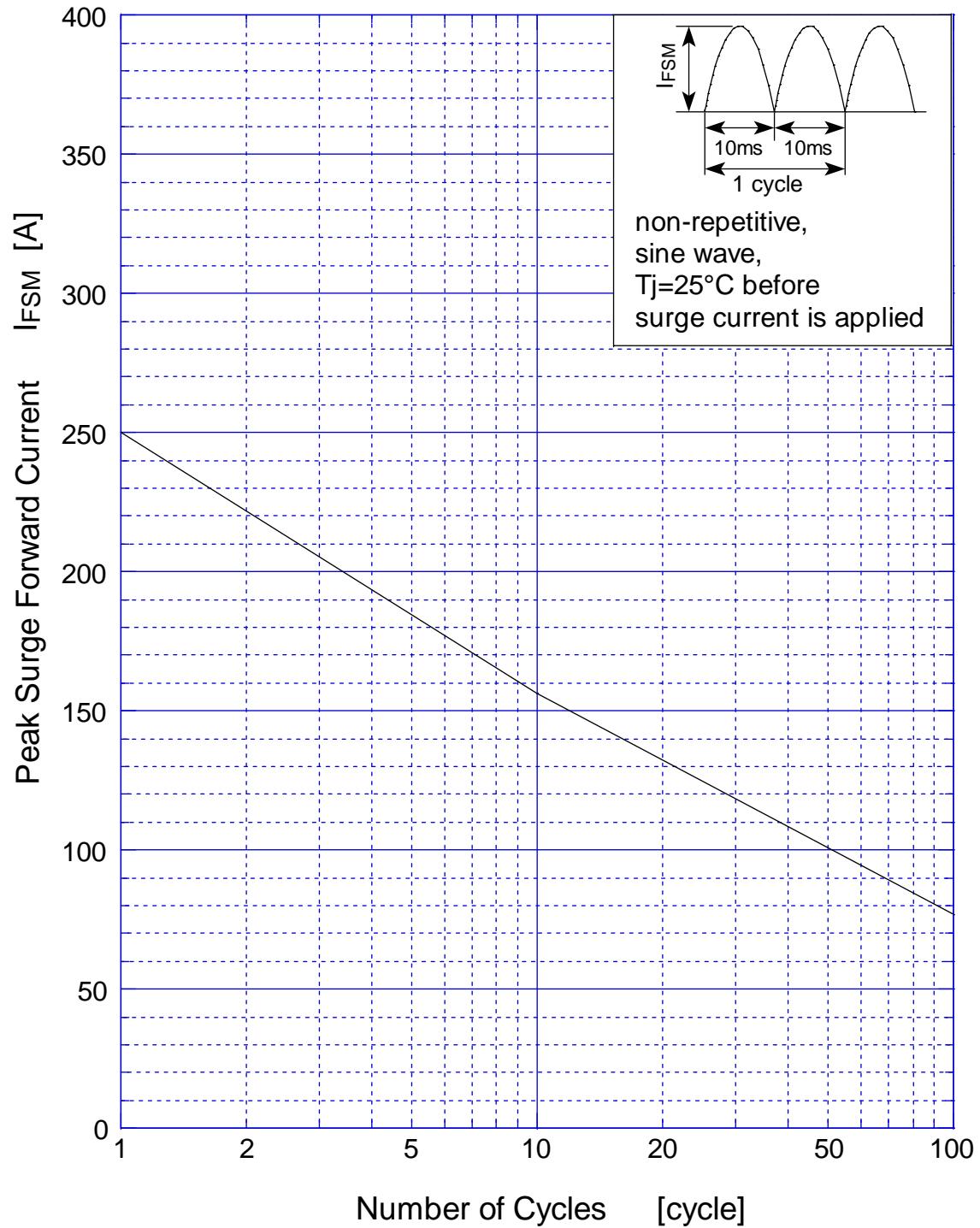


# SF30JC6

## Derating Curve



## SF30JC6 Peak Surge Forward Capability



## SF30JC6 Junction Capacitance

