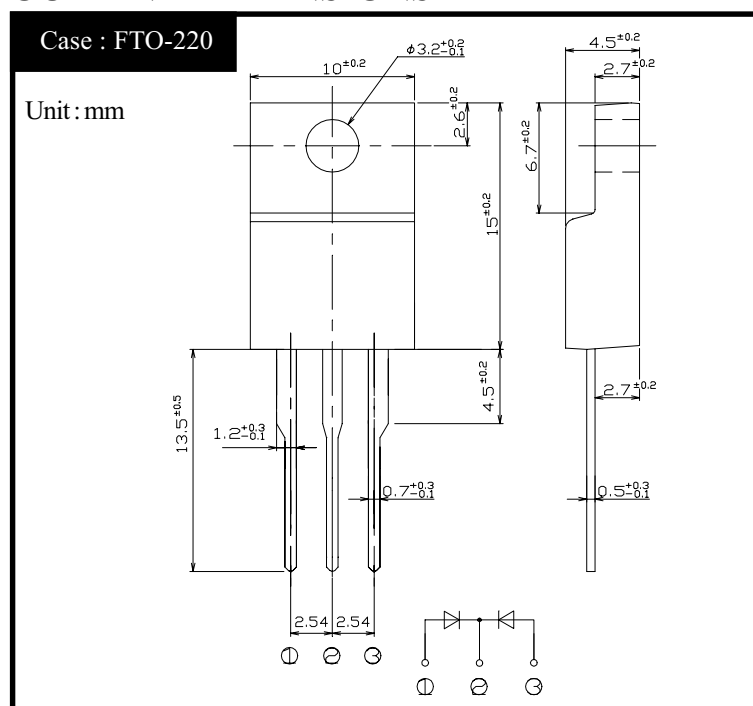


# SF15JC6

## 60V 15A

### OUTLINE DIMENSIONS



### RATINGS

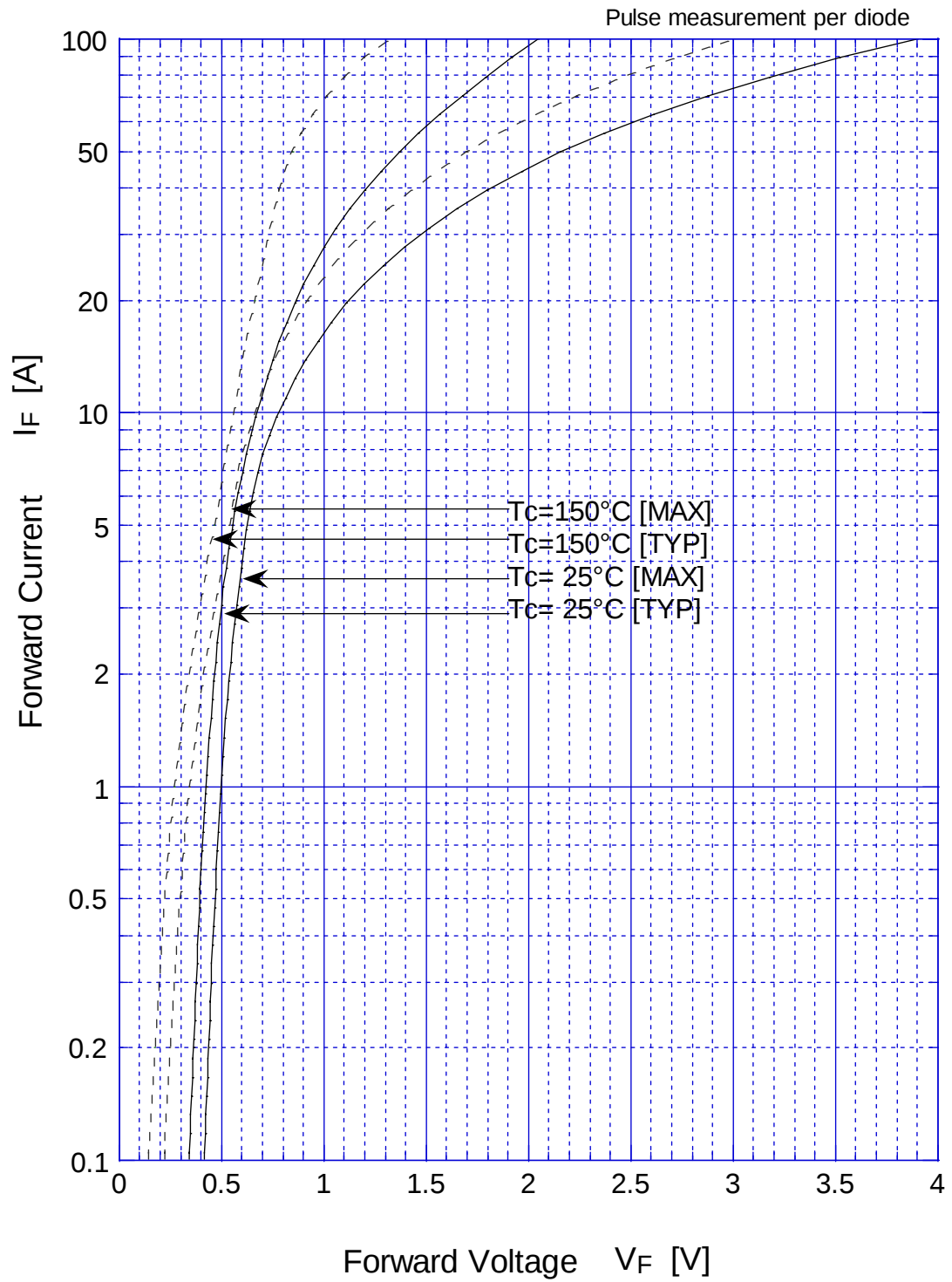
#### ● Absolute Maximum Ratings (Unless otherwise specified, $T_c = 25^\circ\text{C}$ )

| Item                                  | Symbol     | Conditions                                                                      | Ratings        | Unit                    |
|---------------------------------------|------------|---------------------------------------------------------------------------------|----------------|-------------------------|
| Storage Temperature                   | $T_{stg}$  |                                                                                 | $-55 \sim 150$ | $^\circ\text{C}$        |
| Operating Junction Temperature        | $T_j$      |                                                                                 | 150            | $^\circ\text{C}$        |
| Maximum Reverse Voltage               | $V_{RM}$   |                                                                                 | 60             | V                       |
| Repetitive Peak Surge Reverse Voltage | $V_{RRSM}$ | Pulse width 0.5ms, duty 1/40                                                    | 65             | V                       |
| Average Rectified Forward Current     | $I_o$      | 50Hz sine wave, R-load, Rating for each diode $I_o/2$ , $T_c=123^\circ\text{C}$ | 15             | A                       |
| Peak Surge Forward Current            | $I_{FSM}$  | 50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^\circ\text{C}$       | 150            | A                       |
| Dielectric Strength                   | $V_{dis}$  | Terminals to case, AC 1 minute                                                  | 2              | kV                      |
| Mounting Torque                       | TOR        | (Recommended torque: $0.3\text{N}\cdot\text{m}$ )                               | 0.5            | $\text{N}\cdot\text{m}$ |

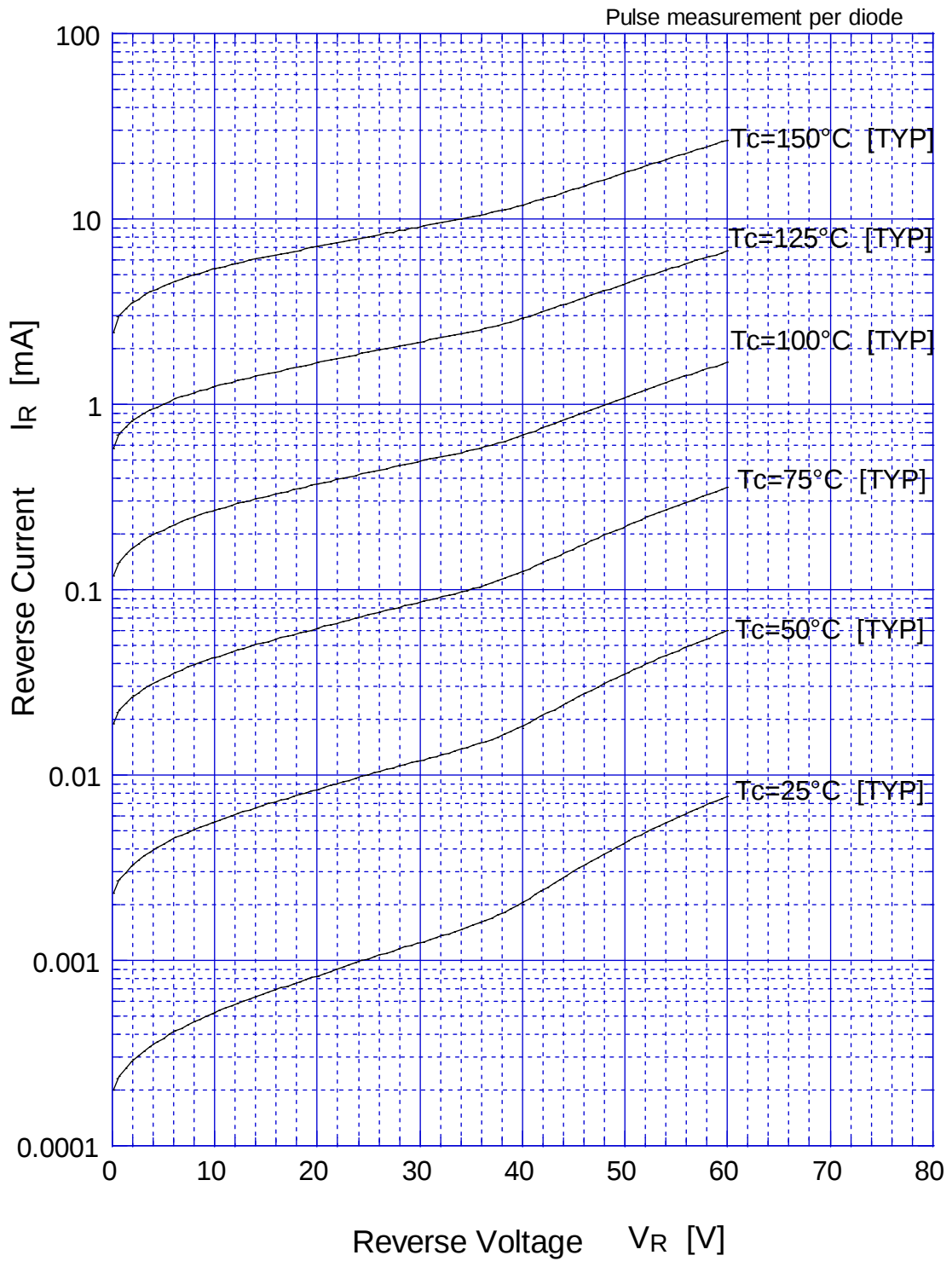
#### ● Electrical Characteristics (Unless otherwise specified, $T_c = 25^\circ\text{C}$ )

| Item                 | Symbol        | Conditions                                                 | Ratings  | Unit               |
|----------------------|---------------|------------------------------------------------------------|----------|--------------------|
| Forward Voltage      | $V_F$         | $I_F=7.5\text{A}$ , Pulse measurement, Rating of per diode | Max 0.69 | V                  |
| Reverse Current      | $I_R$         | $V_R=V_{RM}$ , Pulse measurement, Rating of per diode      | Max 0.7  | mA                 |
| Junction Capacitance | $C_j$         | $f=1\text{MHz}$ , $V_R=10\text{V}$ , Rating of per diode   | Typ 270  | pF                 |
| Thermal Resistance   | $\theta_{jc}$ | junction to case                                           | Max 2.0  | $^\circ\text{C/W}$ |

# SF15JC6 Forward Voltage

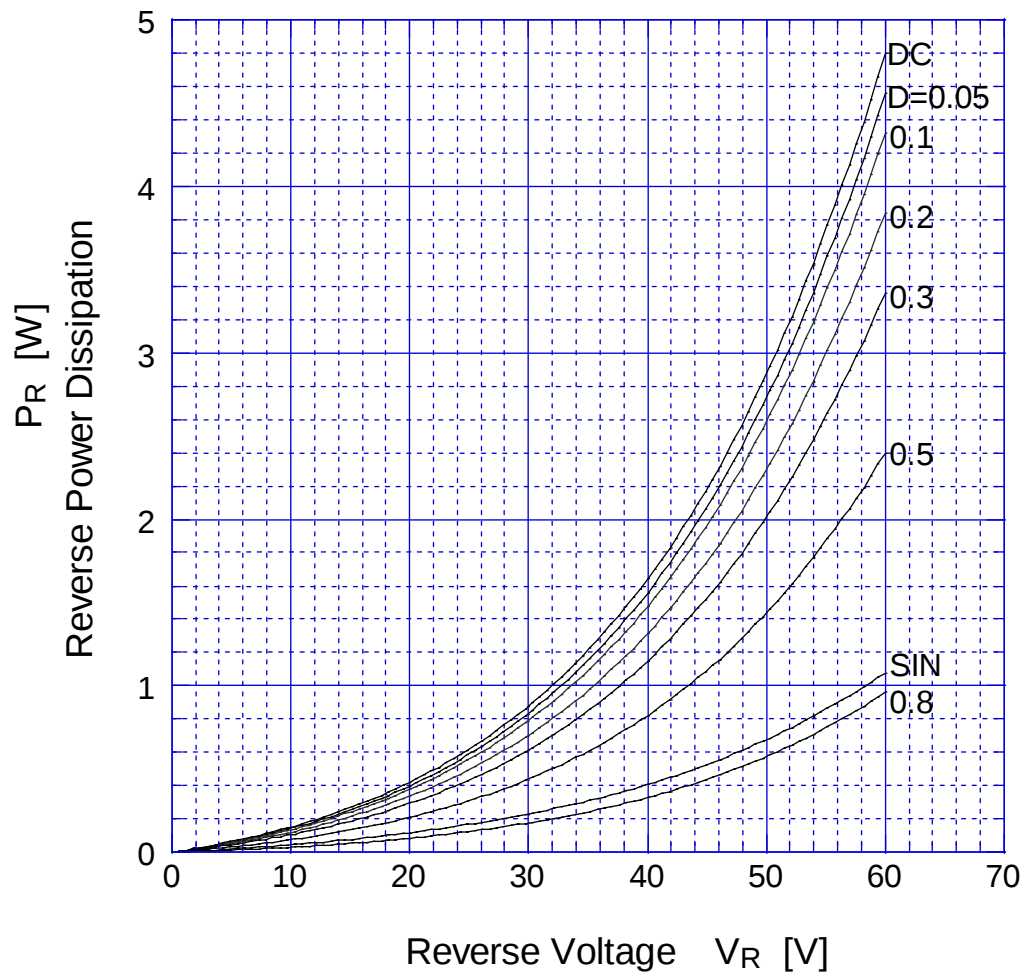


## SF15JC6 Reverse Current

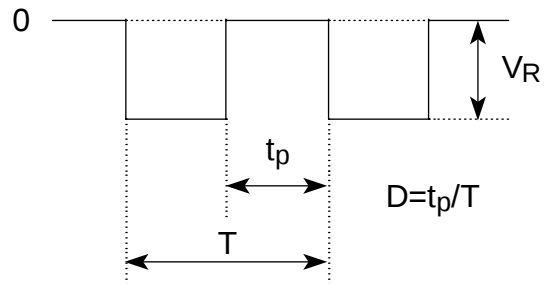


# SF15JC6

## Reverse Power Dissipation

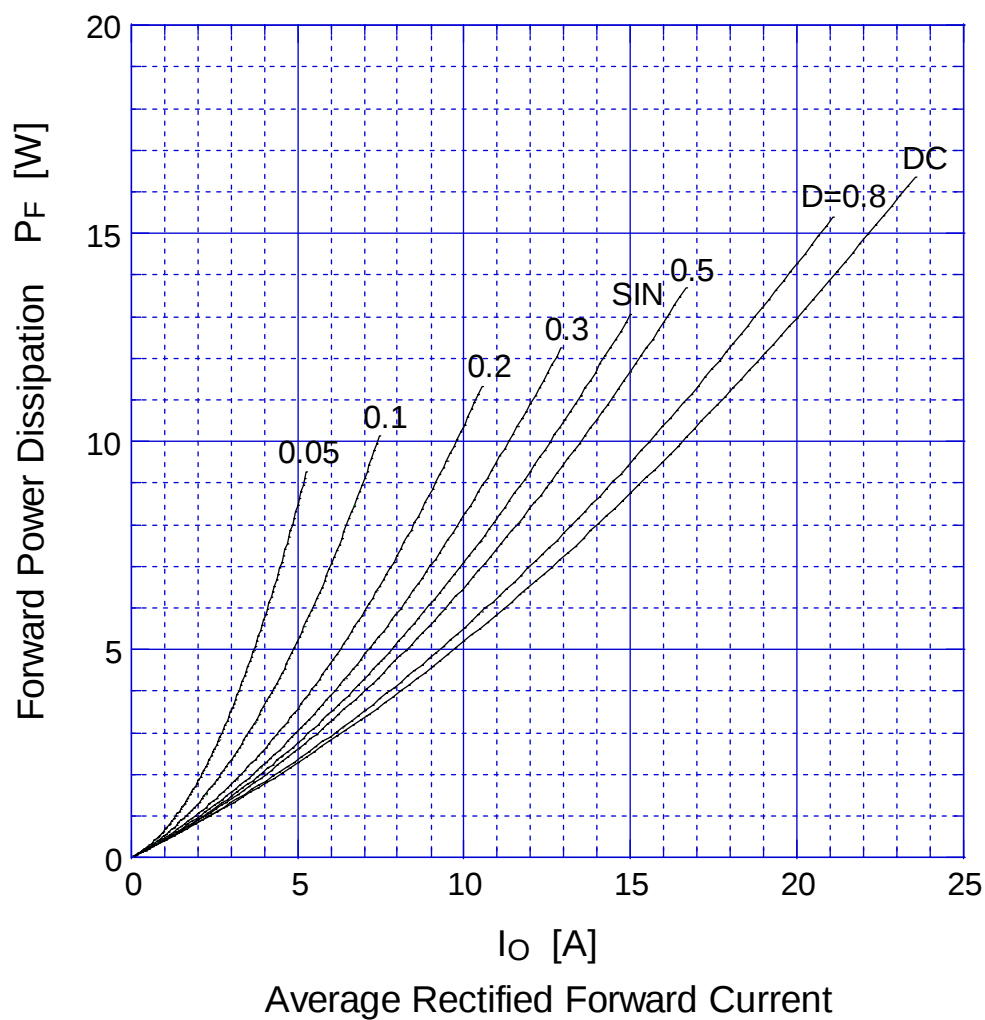


$T_j = 150^\circ\text{C}$

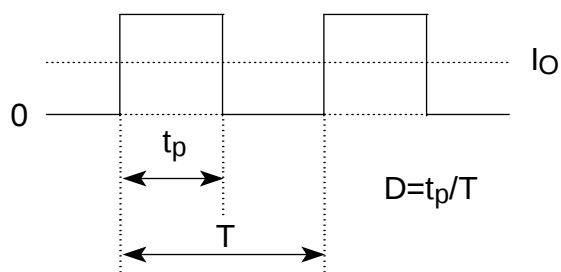


# SF15JC6

## Forward Power Dissipation

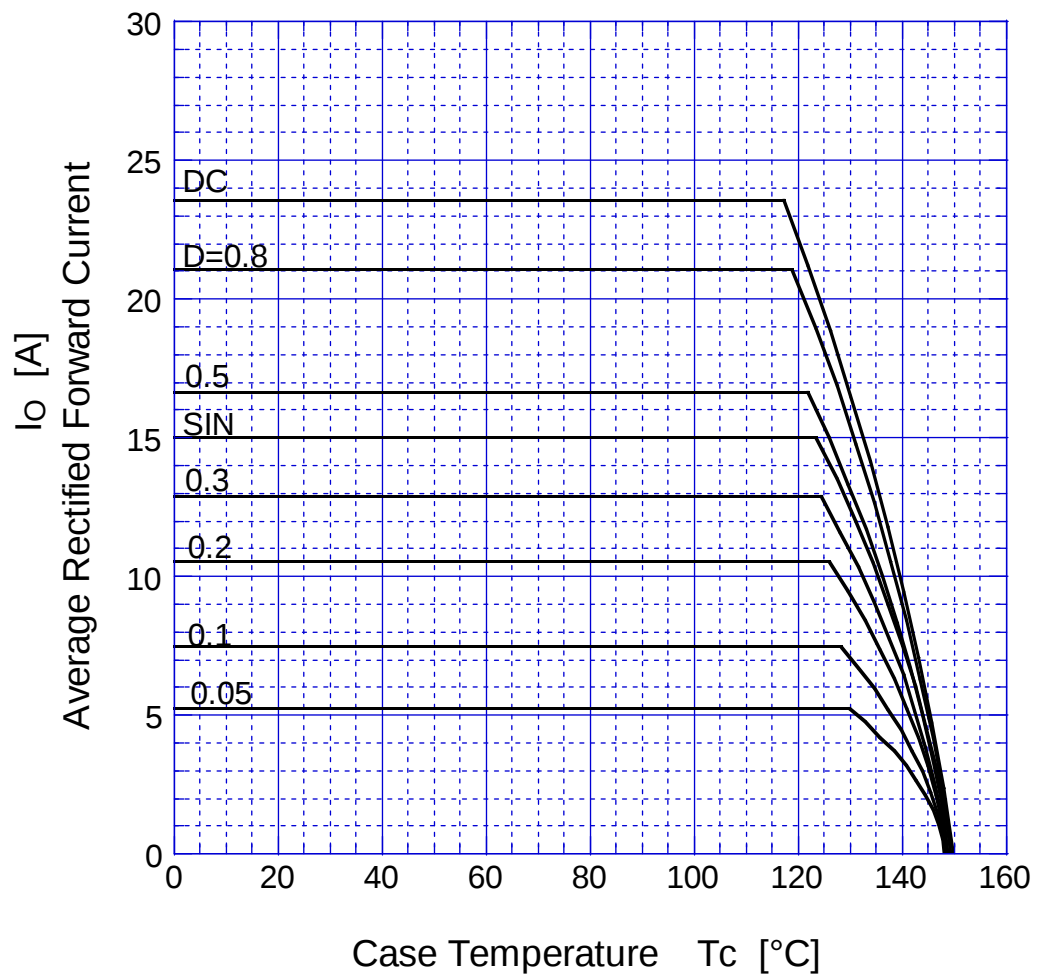


$T_j = 150^\circ\text{C}$

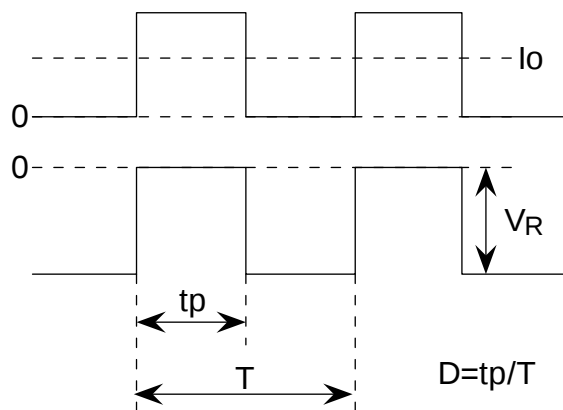


# SF15JC6

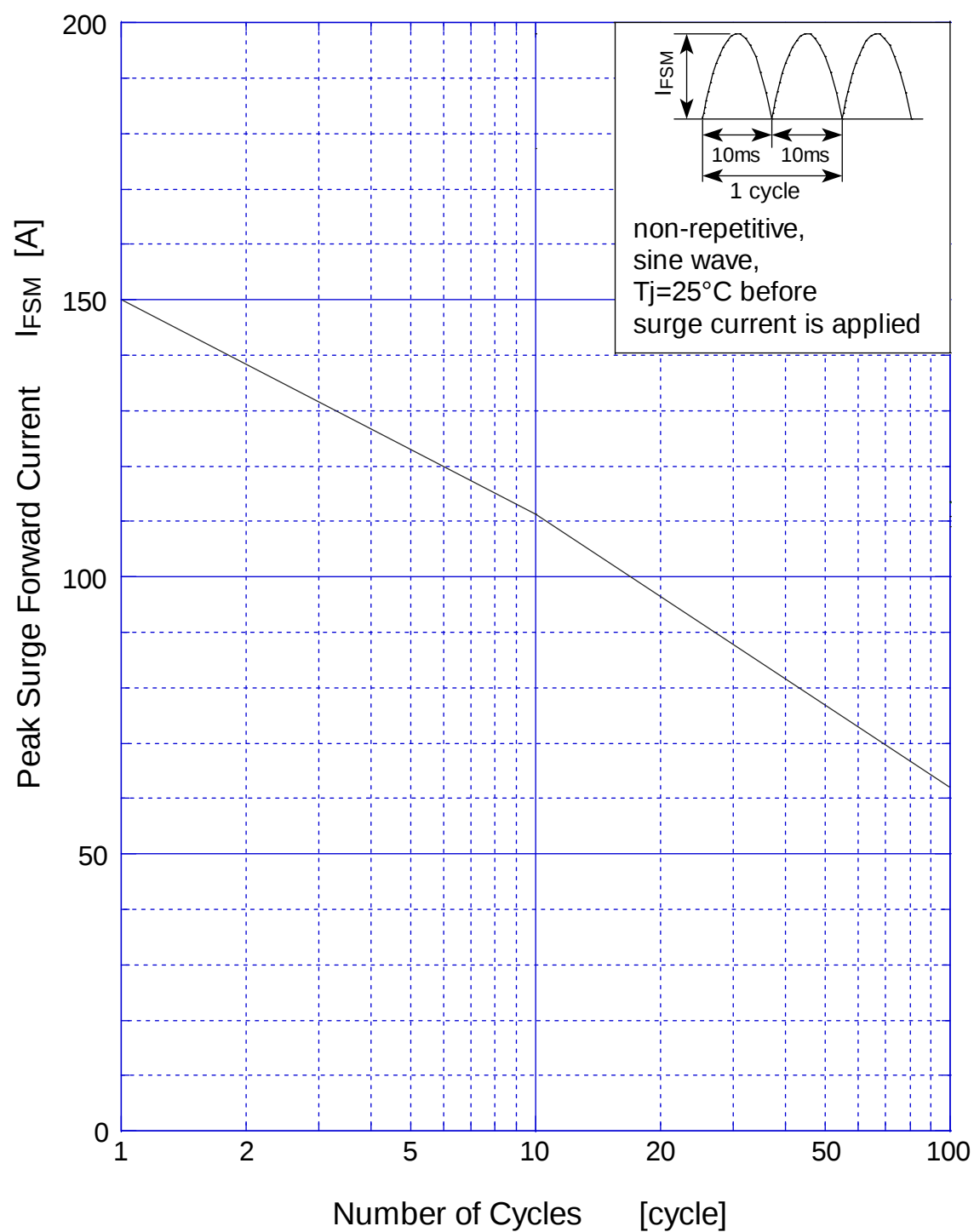
## Derating Curve



$V_R = 30V$



## SF15JC6 Peak Surge Forward Capability



## SF15JC6 Junction Capacitance

