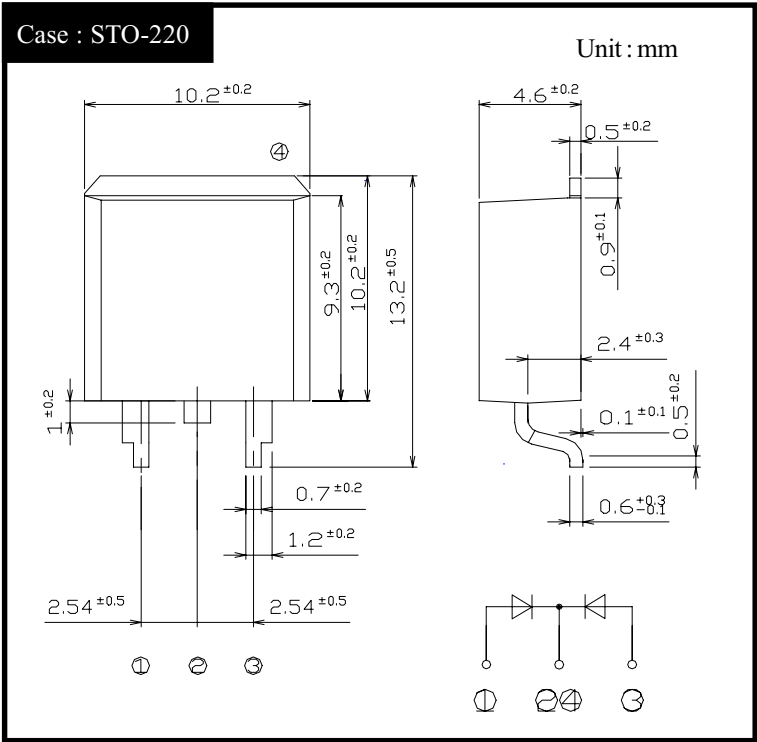


DF30JC6

60V 30A

OUTLINE DIMENSIONS



RATINGS

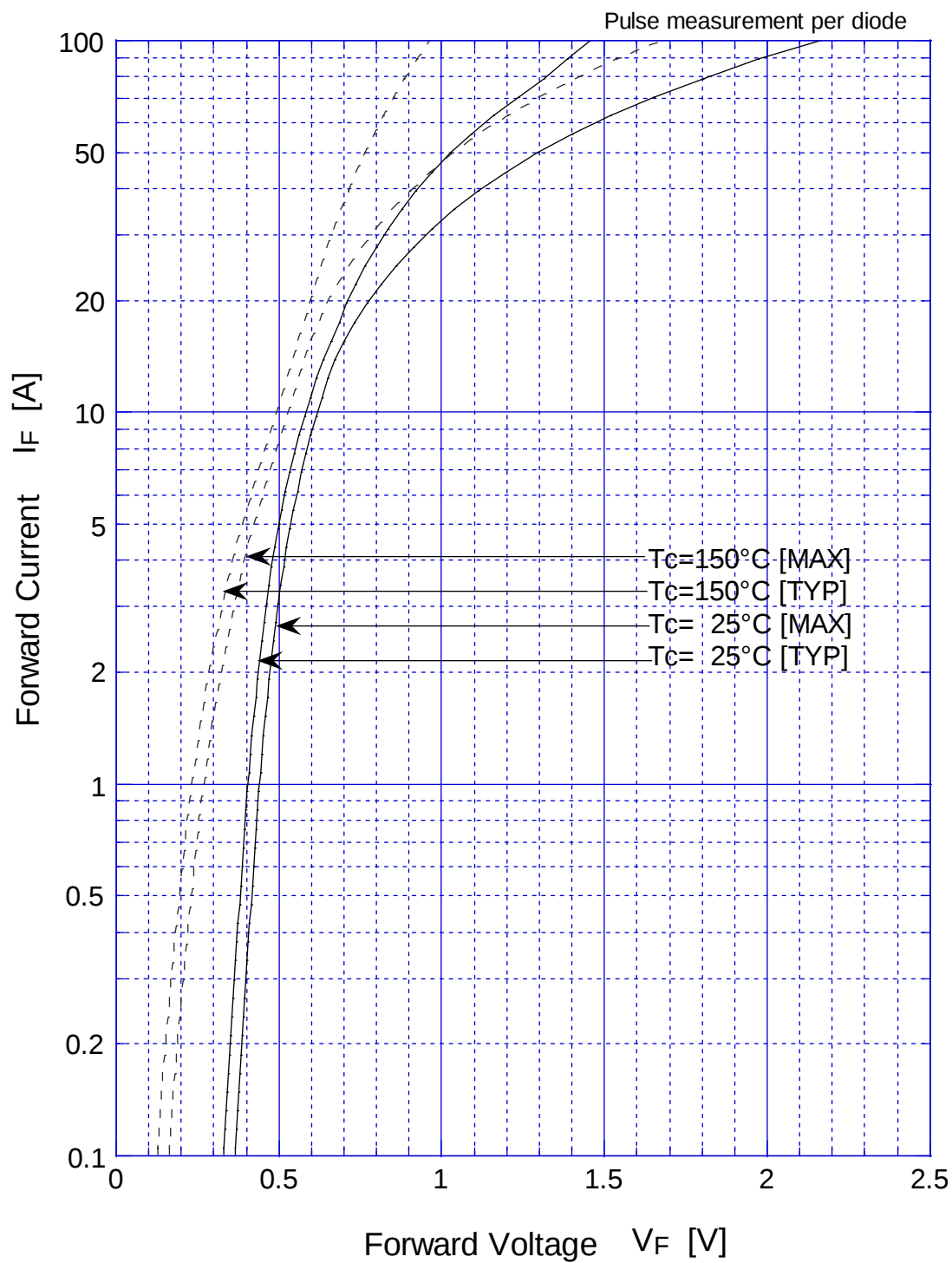
●Absolute Maximum Ratings (Unless otherwise specified, Tc=25°C)

| Item                                  | Symbol | Conditions                                                   | Ratings | Unit |
|---------------------------------------|--------|--------------------------------------------------------------|---------|------|
| Storage Temperature                   | Tstg   |                                                              | -55~150 | °C   |
| Operating Junction Temperature        | Tj     |                                                              | 150     | °C   |
| Maximum Reverse Voltage               | VRM    |                                                              | 60      | V    |
| Repetitive Peak Surge Reverse Voltage | VRRSM  | Pulse width 0.5ms, duty 1/40                                 | 65      | V    |
| Average Rectified Forward Current     | IO     | 50Hz sine wave, R-load, Rating for each diode IO/2, Tc=108°C | 30      | A    |
| Peak Surge Forward Current            | IFSM   | 50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C   | 250     | A    |

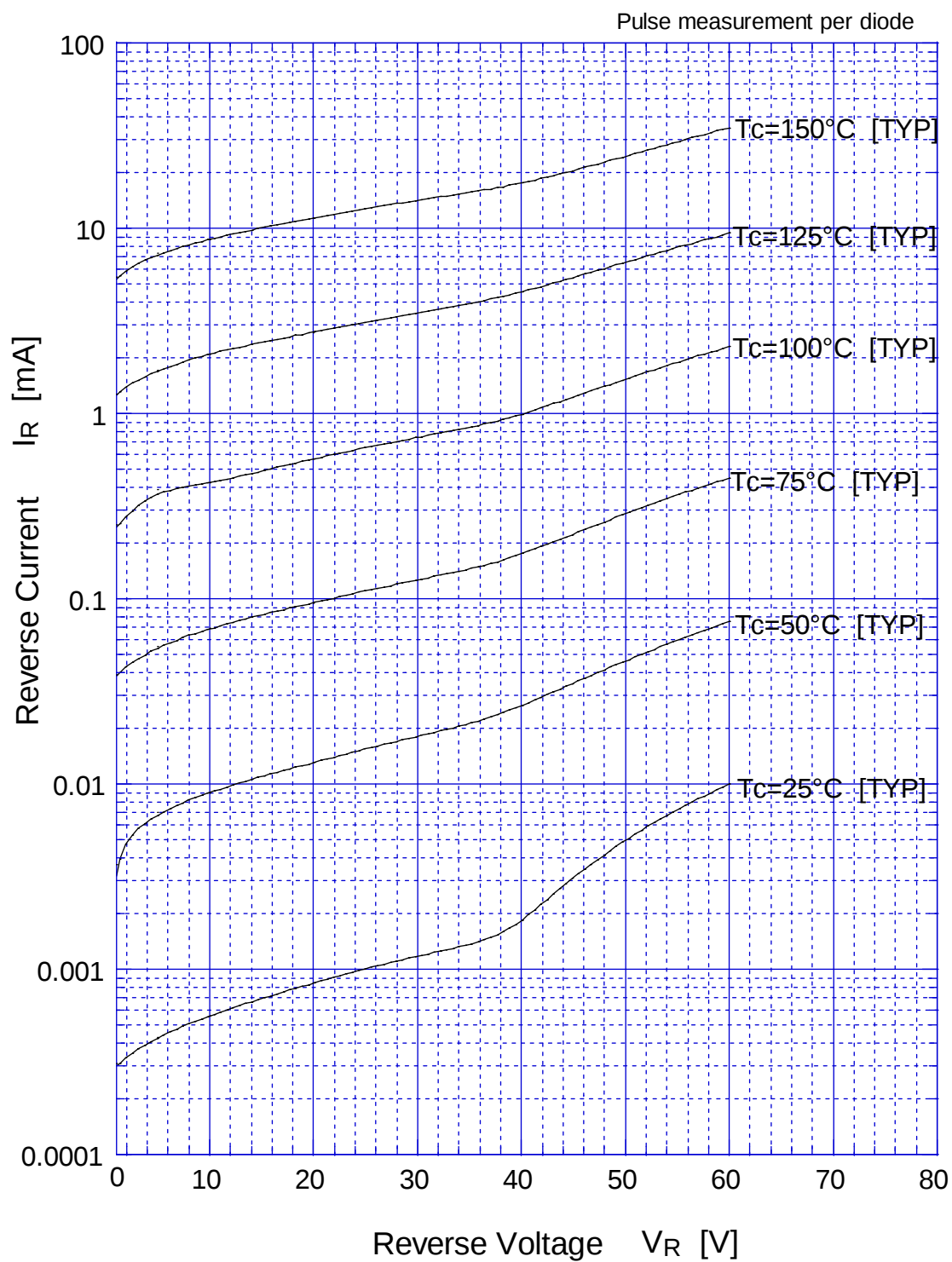
●Electrical Characteristics (Unless otherwise specified, Tc=25°C)

| Item                 | Symbol | Conditions                                     | Ratings  | Unit |
|----------------------|--------|------------------------------------------------|----------|------|
| Forward Voltage      | VF     | IF=15A, Pulse measurement, Rating of per diode | Max 0.69 | V    |
| Reverse Current      | IR     | VR=VRM, Pulse measurement, Rating of per diode | Max 0.7  | mA   |
| Junction Capacitance | Cj     | f=1MHz, VR=10V, Rating of per diode            | Typ 490  | pF   |
| Thermal Resistance   | θ jc   | junction to case                               | Max 1.6  | °C/W |

# DF30JC6 Forward Voltage

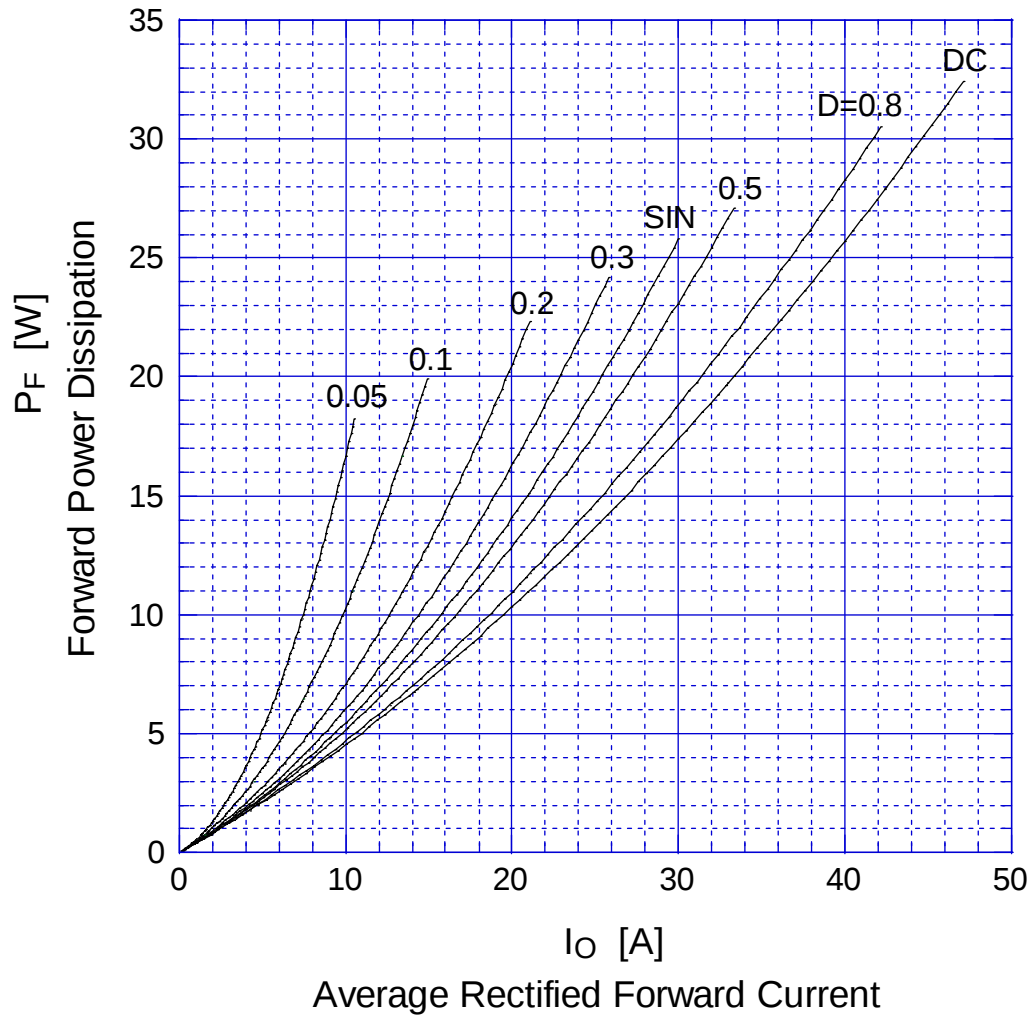


## DF30JC6 Reverse Current

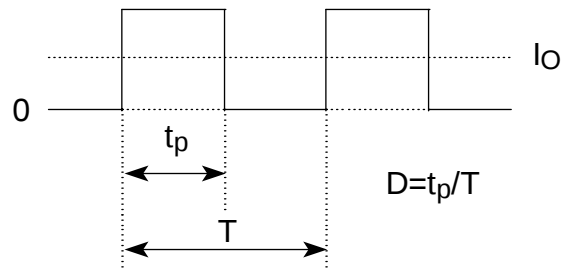


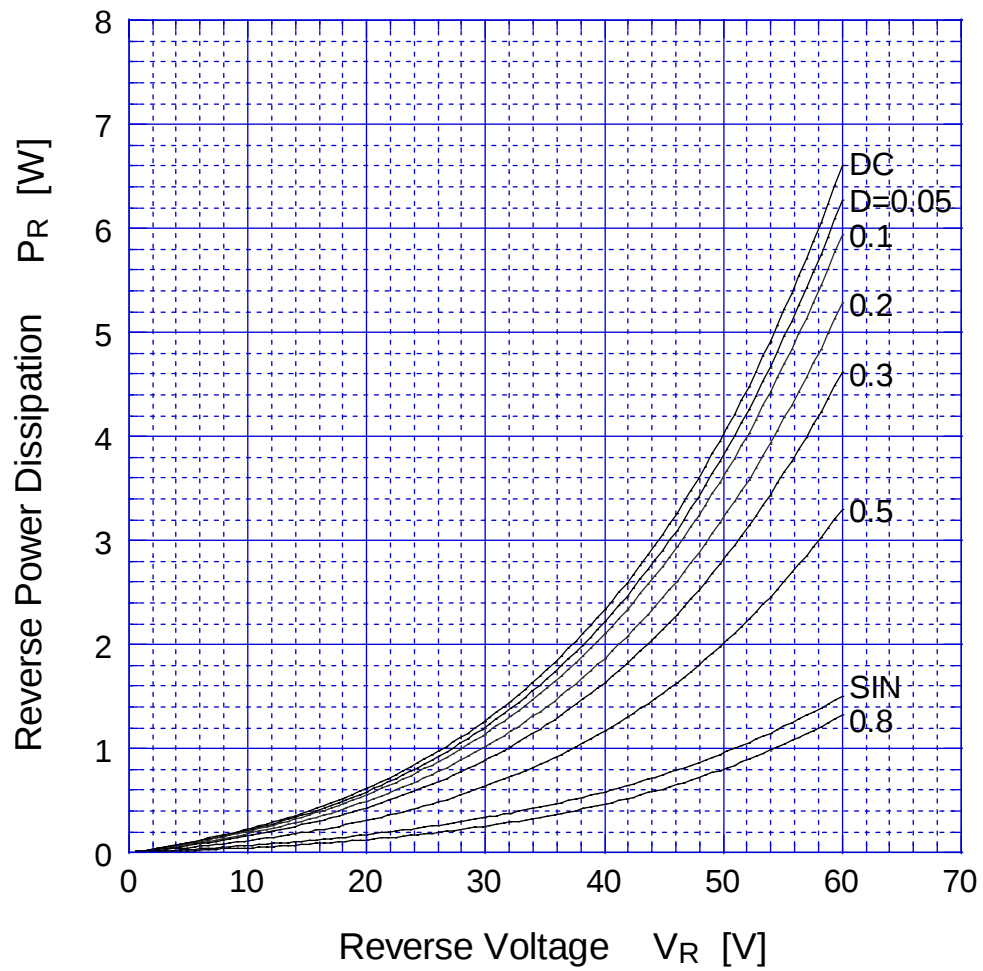
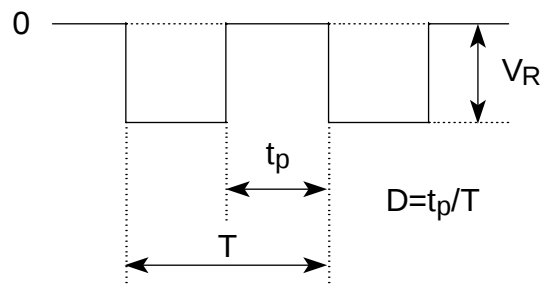
# DF30JC6

## Forward Power Dissipation



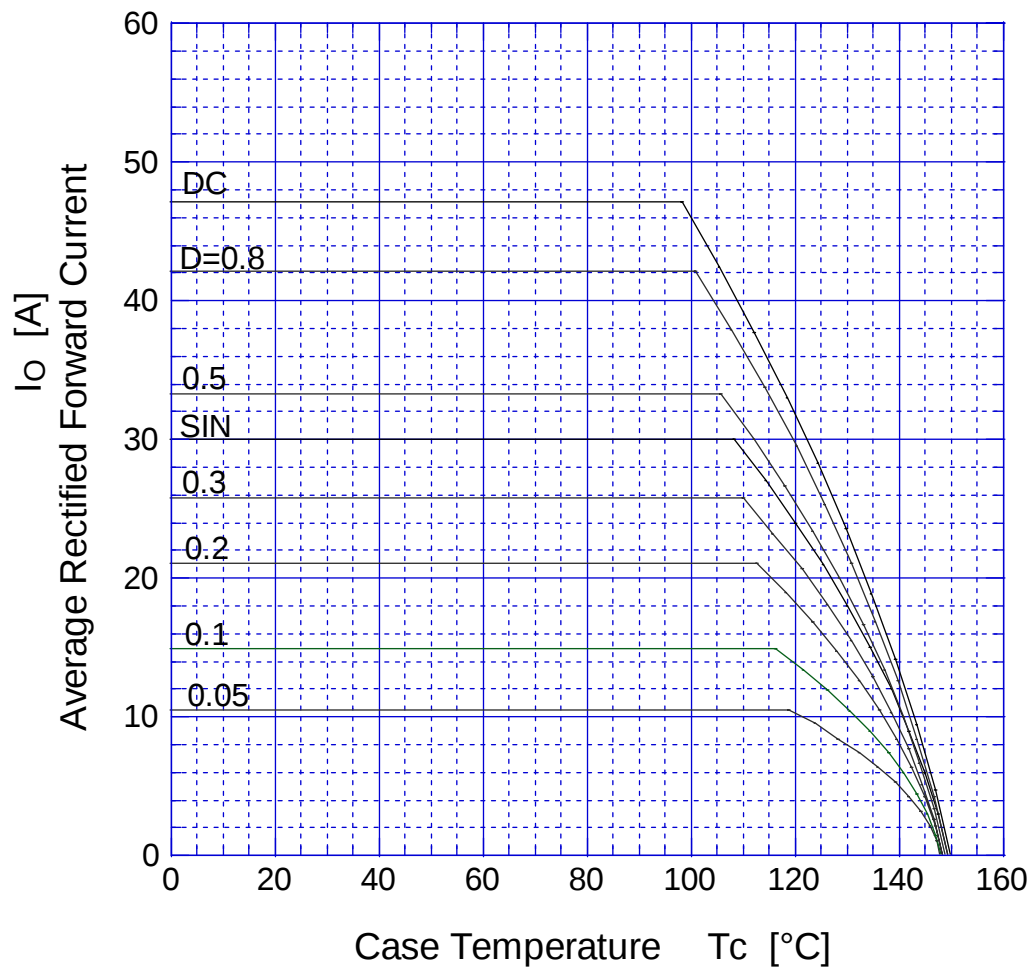
$T_j = 150^\circ\text{C}$



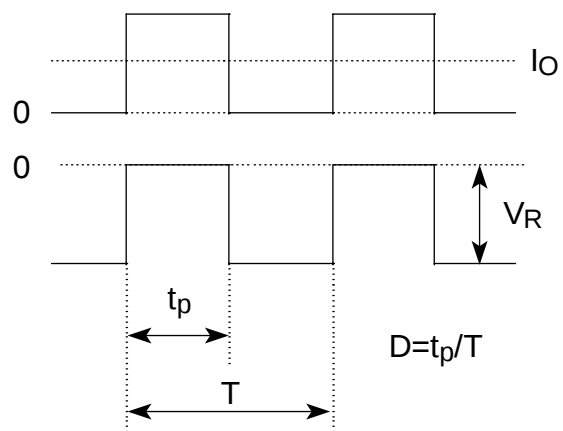
 $T_J = 150^\circ\text{C}$ 

# DF30JC6

## Derating Curve

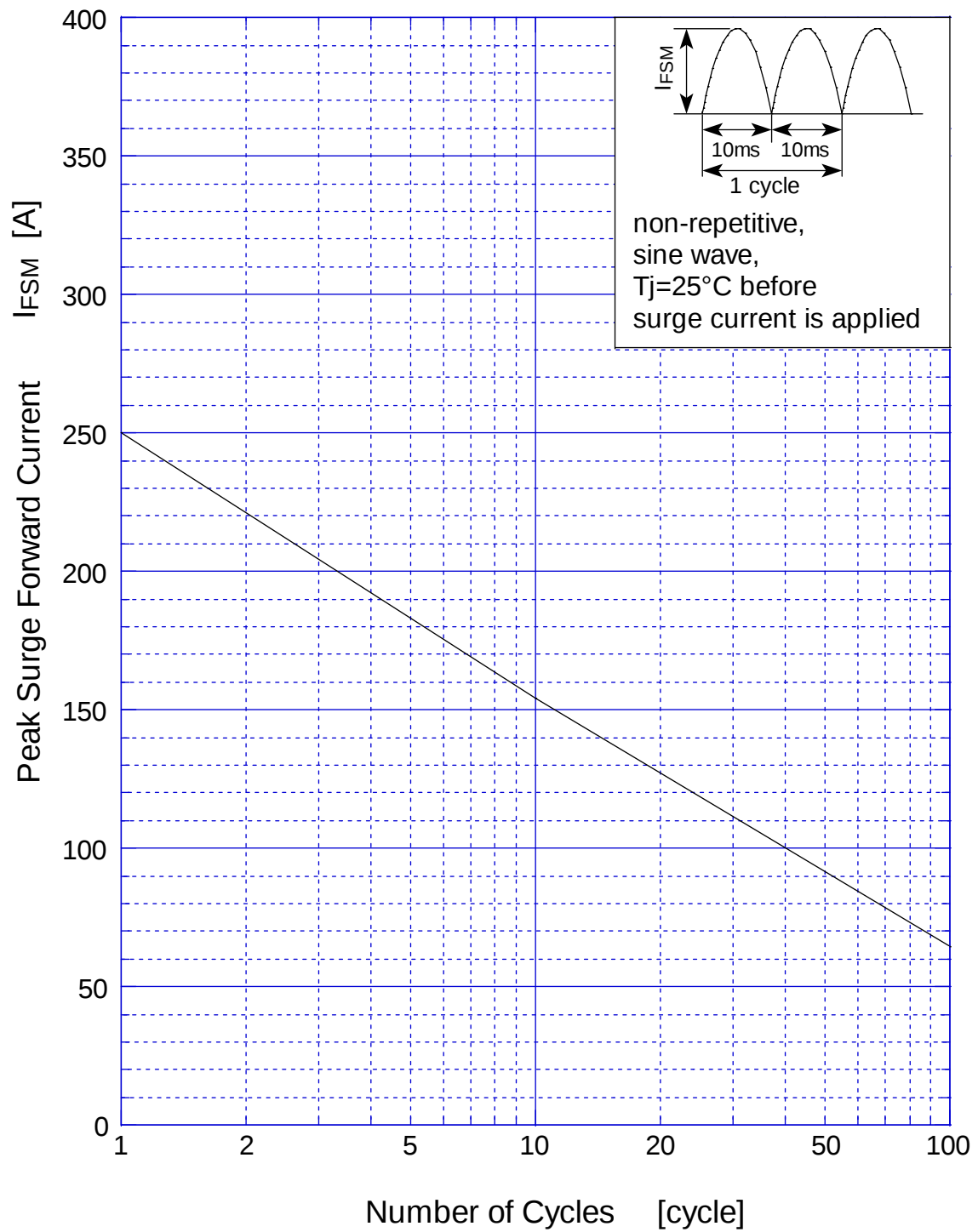


$V_R = 30V$



# DF30JC6

## Peak Surge Forward Capability



## DF30JC6 Junction Capacitance

