# SHINDENGEN

## Schottky Rectifiers (SBD)

**Dual**

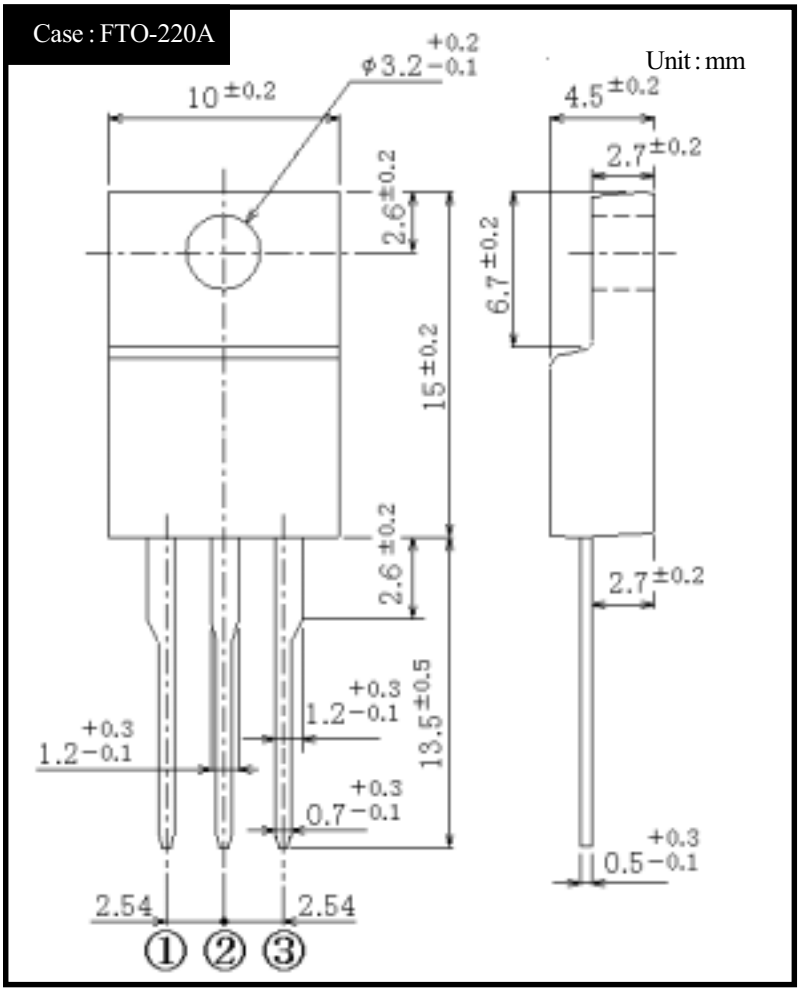
# SF30NC15M

**150V 30A**

## OUTLINE DIMENSIONS

Case : FTO-220A

Unit : mm




## RATINGS

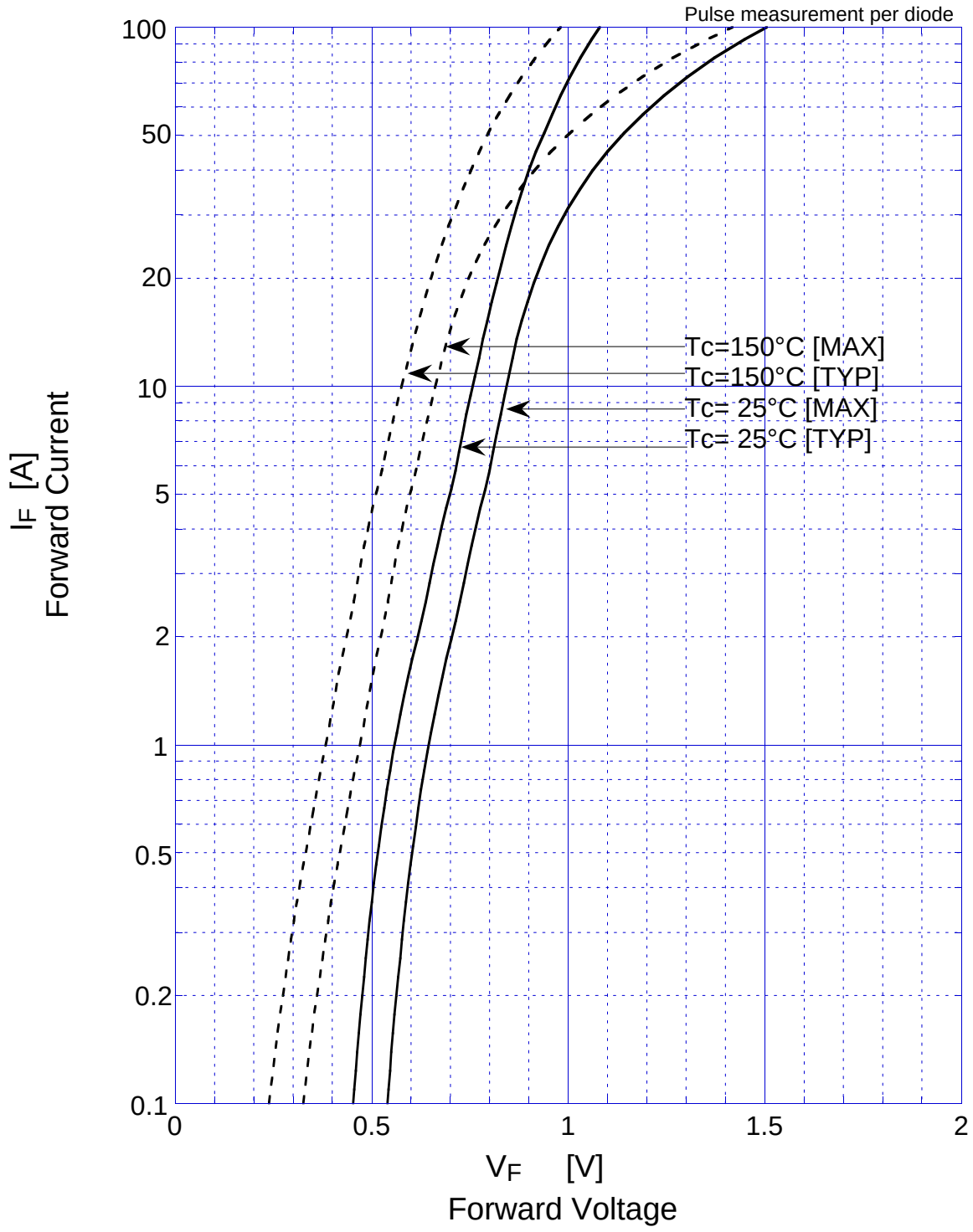
Absolute Maximum Ratings（Tc=25℃ unless otherwise specified）

| Item | Symbol | Conditions | Ratings | Units |
|---|---|---|---|---|
| Storage Temperature | Tstg | | -55 to 150 | ℃ |
| Operating Junction Temperature | Tj | | 150 | ℃ |
| Maximum Reverse Voltage | $V_{RM}$ | | 150 | V |
| Average Rectified Forward Current | Io | 50Hz sine wave, Resistance load, Rating for each diode Io/2, Tc=107℃ | 30 | A |
| Peak Surge Forward Current | $I_{FSM}$ | 50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25℃ | 300 | A |
| Dielectric Strength | Vdis | Terminals to case, AC 1 minute | 2 | kV |
| Mounting Torque | TOR | (Recommended torque : 0.3N･m) | 0.5 | N･m |

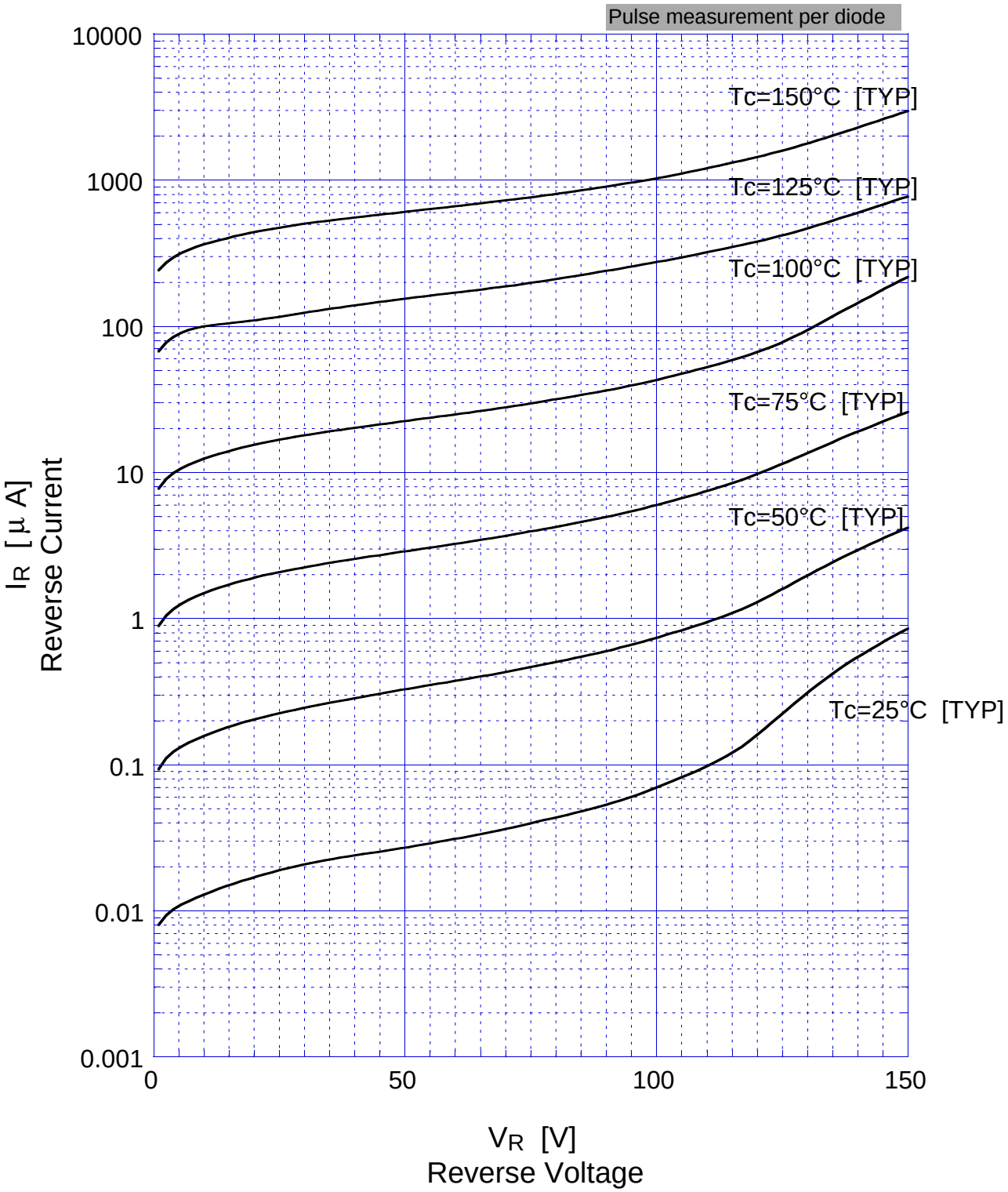
Electrical Characteristics（Tc=25℃ unless otherwise specified）

| Item | Symbol | Conditions | Ratings | Unit |
|---|---|---|---|---|
| Forward Voltage | $V_F$ | $I_F$=15A, Pulse measurement, Rating of per diode | Max. 0.88 | V |
| Reverse Current | $I_R$ | $V_R$=150V, Pulse measurement, Rating of per diode | Max. 0.5 | mA |
| Junction Capacitance | Cj | f=1MHz, $V_R$=10V, Rating of per diode | Typ. 300 | pF |
| Thermal Resistance | θ jc | junction to case | Max. 1.6 | ℃/W |

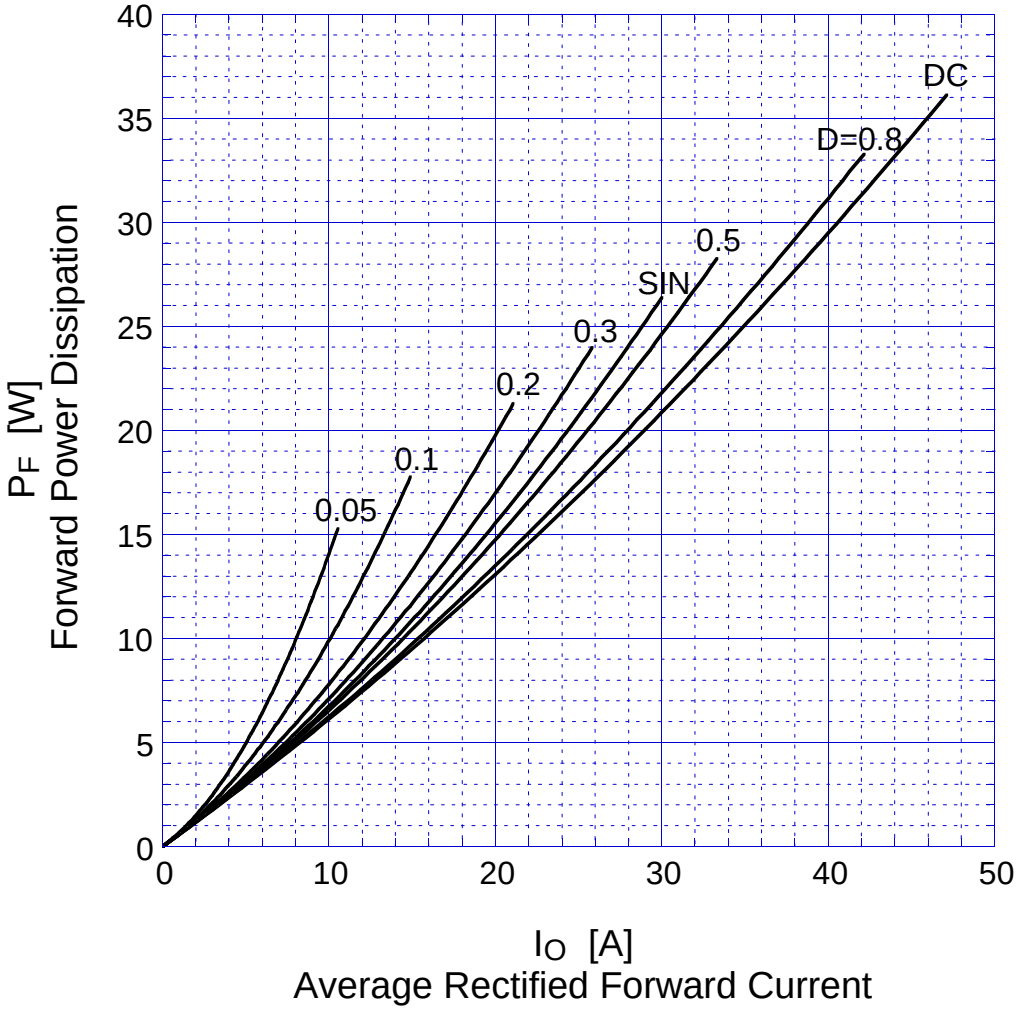
# SF30NC15M Forward Voltage



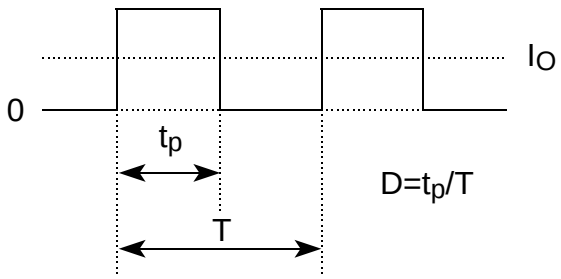
# SF30NC15M Reverse Current



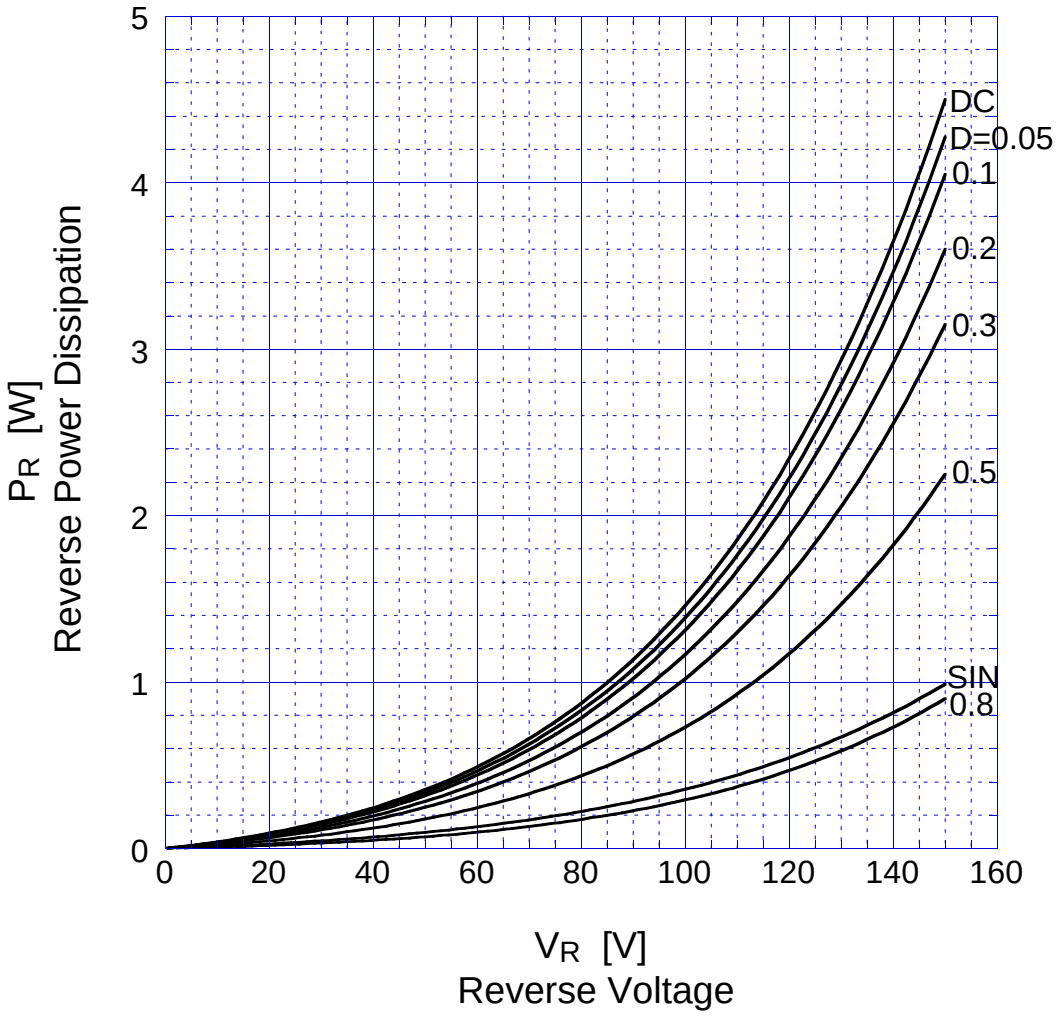
# SF30NC15M Forward Power Dissipation



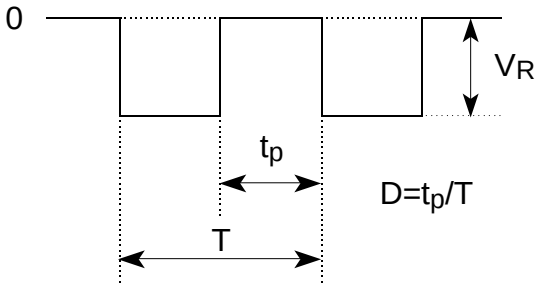

Tj = 150°C



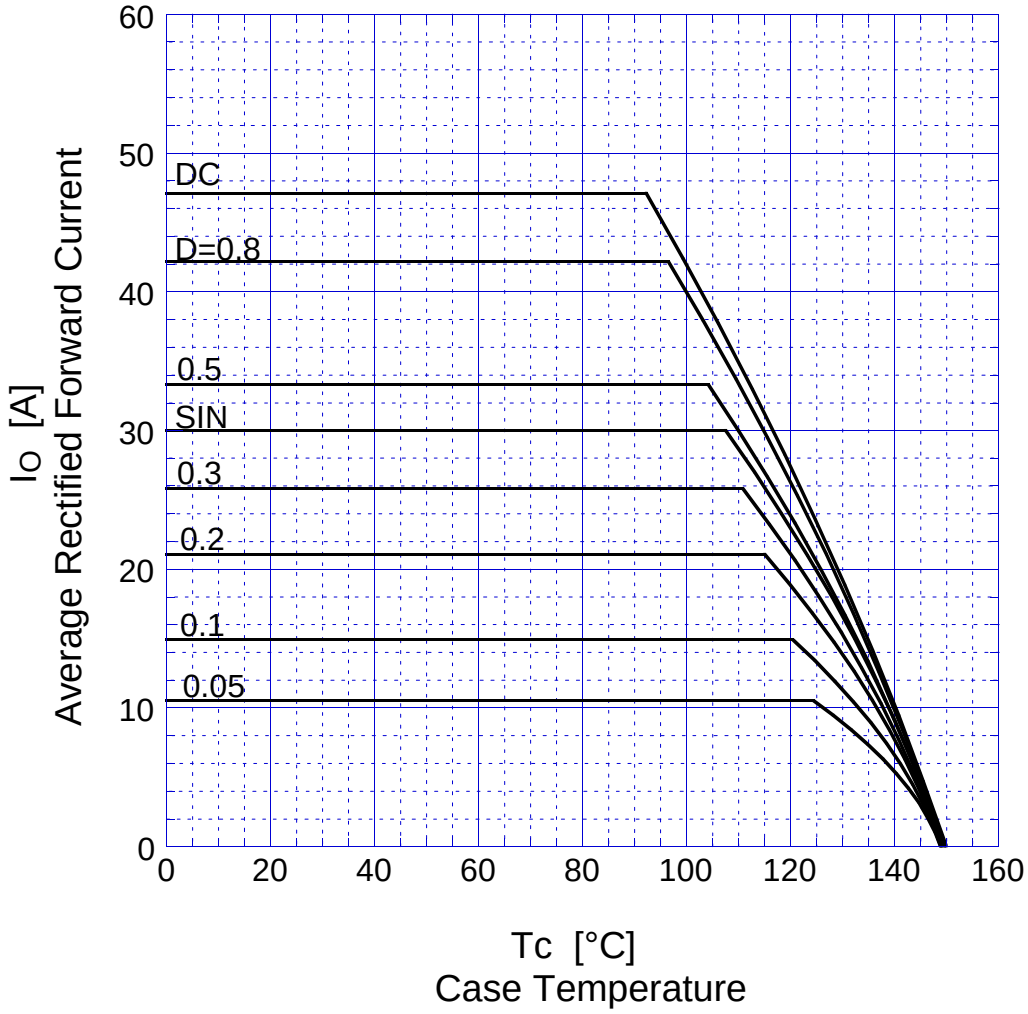
# SF30NC15M Reverse Power Dissipation



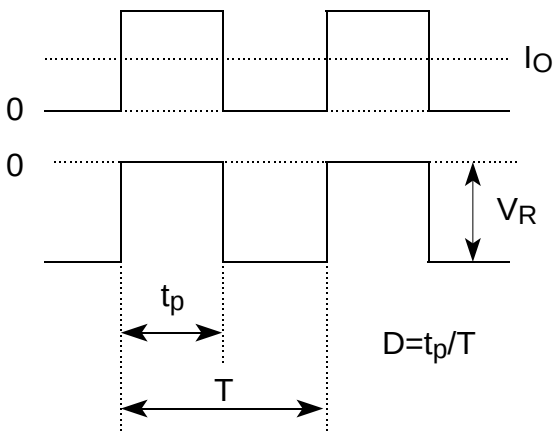

Tj = 150°C



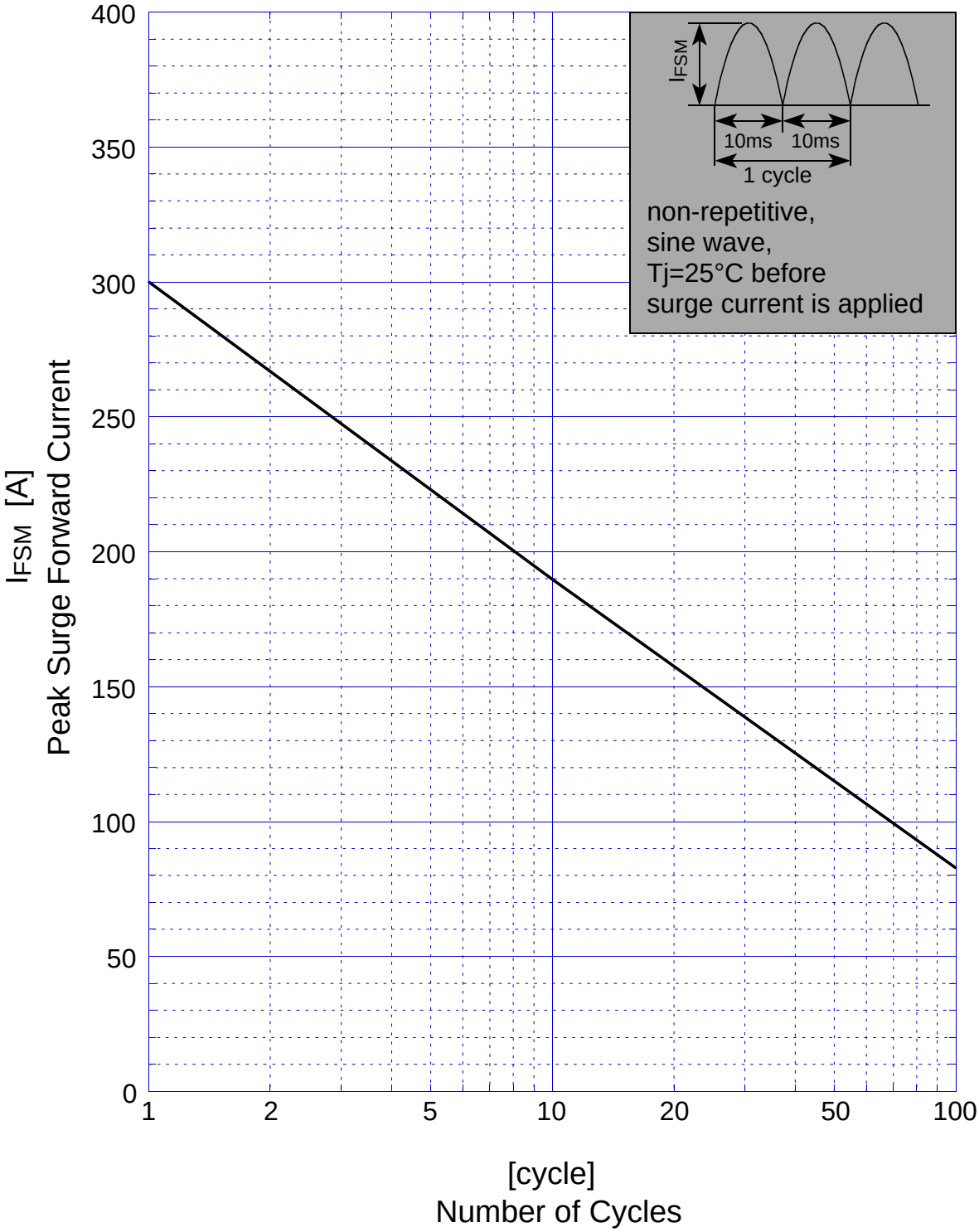
# SF30NC15M Derating Curve

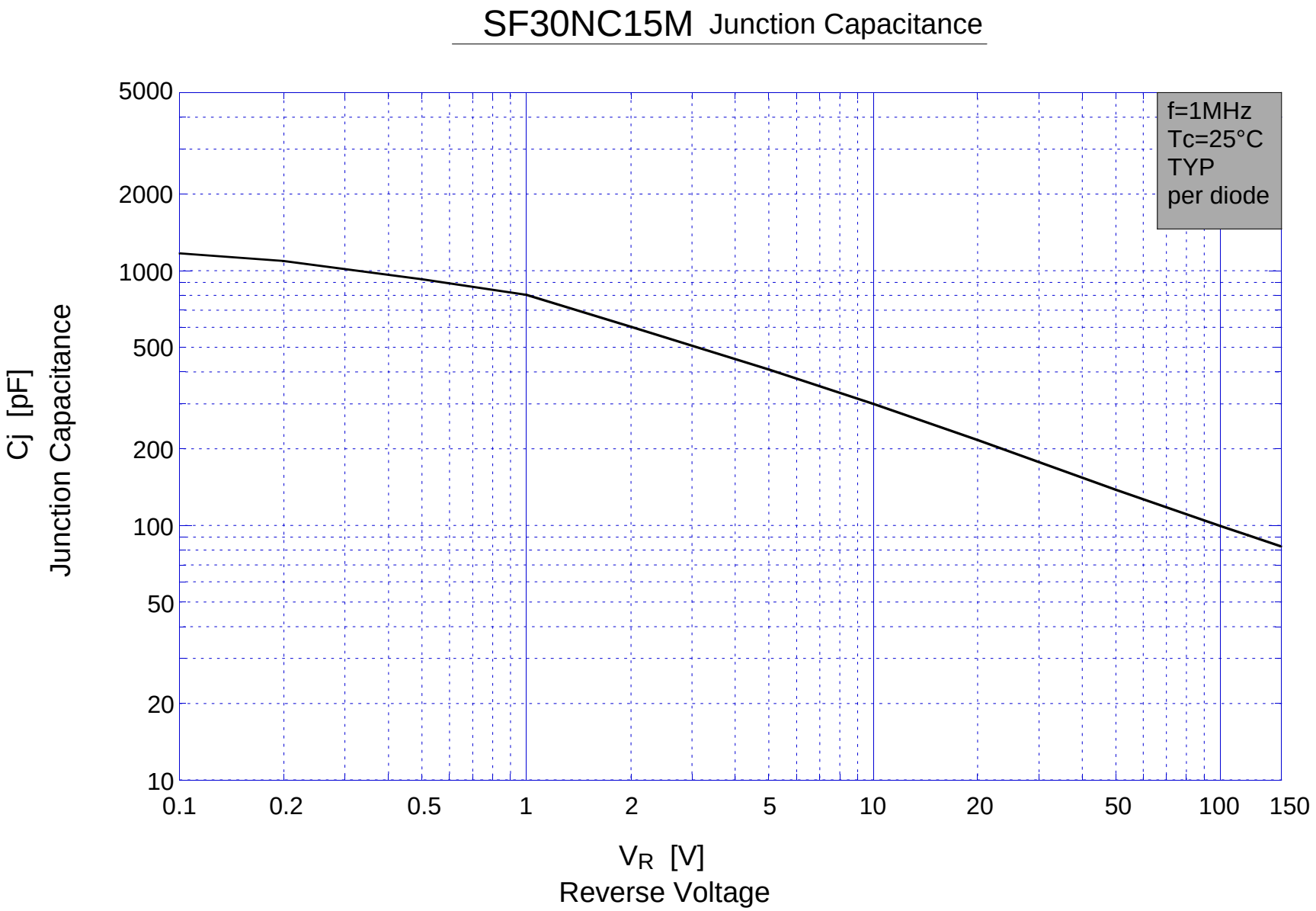



$V_R$ =75V



# SF30NC15M Peak Surge Forward Capability




SF30NC15M Junction Capacitance
f=1MHz
Tc=25°C
TYP
per diode
Cj [pF]
Junction Capacitance
5000
2000
1000
500
200
100
50
20
10
0.1
0.2
0.5
1
2
5
10
20
50
100
150
VR [V]
Reverse Voltage