

SHINDENGEN

General Purpose Rectifiers

Single

D1F20

200V 1A

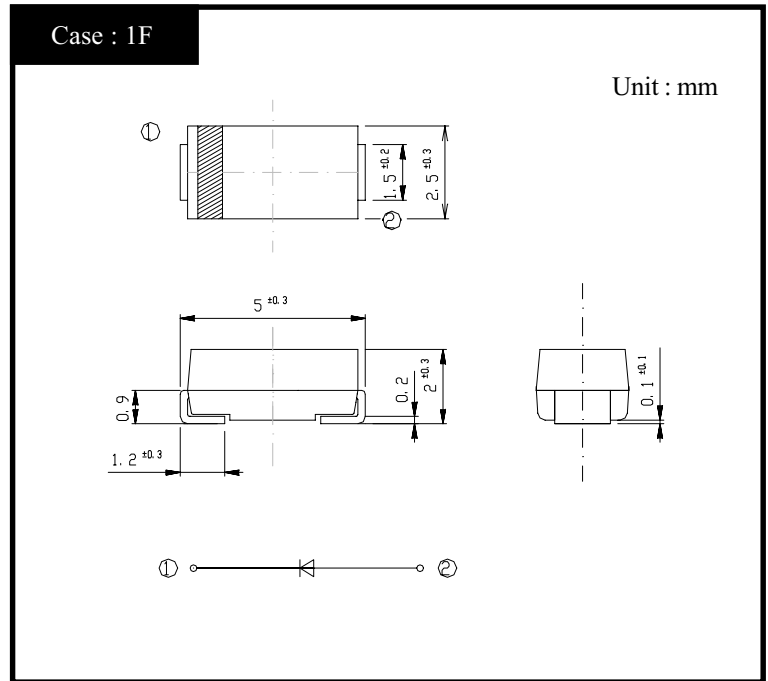
FEATURES

- High reliability with superior moisture resistance
- Applicable to Automatic Insertion

APPLICATION

- Conventional Rectification
- Power source(Power Supply)
- Home Appliances, Office Equipment
- Telecommunication, Factory Automation

OUTLINE DIMENSIONS



RATINGS

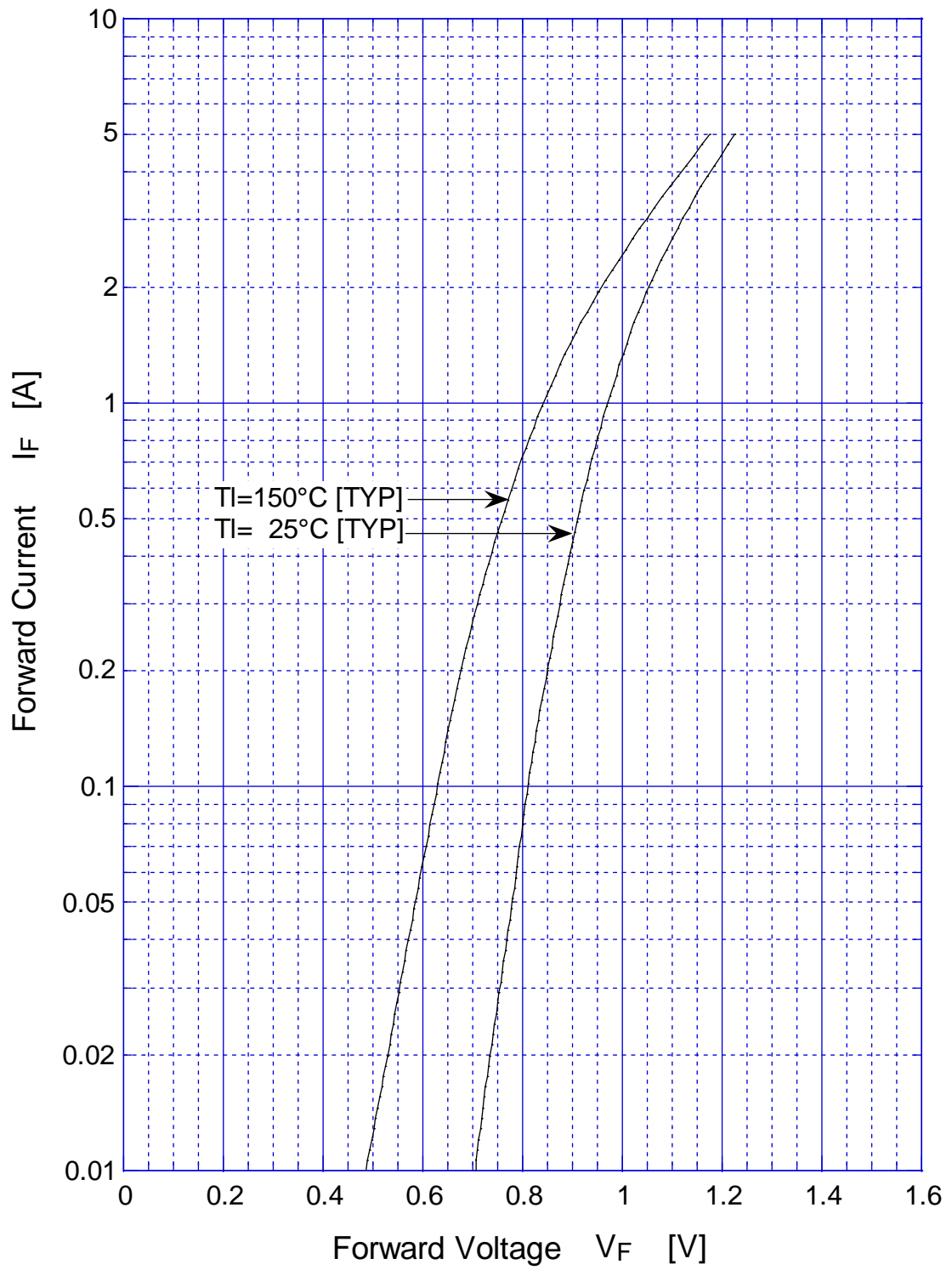
- Absolute Maximum Ratings (If not specified $T_I=25^{\circ}\text{C}$)

| Item | Symbol | Conditions | Ratings | Unit |
|-----------------------------------|-----------|---|-----------|--------------------|
| Storage Temperature | T_{stg} | | -55 ~ 150 | $^{\circ}\text{C}$ |
| Operating Junction Temperature | T_j | | 150 | $^{\circ}\text{C}$ |
| Maximum Reverse Voltage | V_{RM} | | 200 | V |
| Average Rectified Forward Current | I_o | 50Hz sine wave, R-load, $T_a=25^{\circ}\text{C}$ On alumina substrate | 1 | A |
| | | 50Hz sine wave, R-load, $T_a=25^{\circ}\text{C}$ On glass-epoxy substrate | 0.75 | |
| Peak Surge Forward Current | I_{FSM} | 50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^{\circ}\text{C}$ | 25 | A |

- Electrical Characteristics (If not specified $T_I=25^{\circ}\text{C}$)

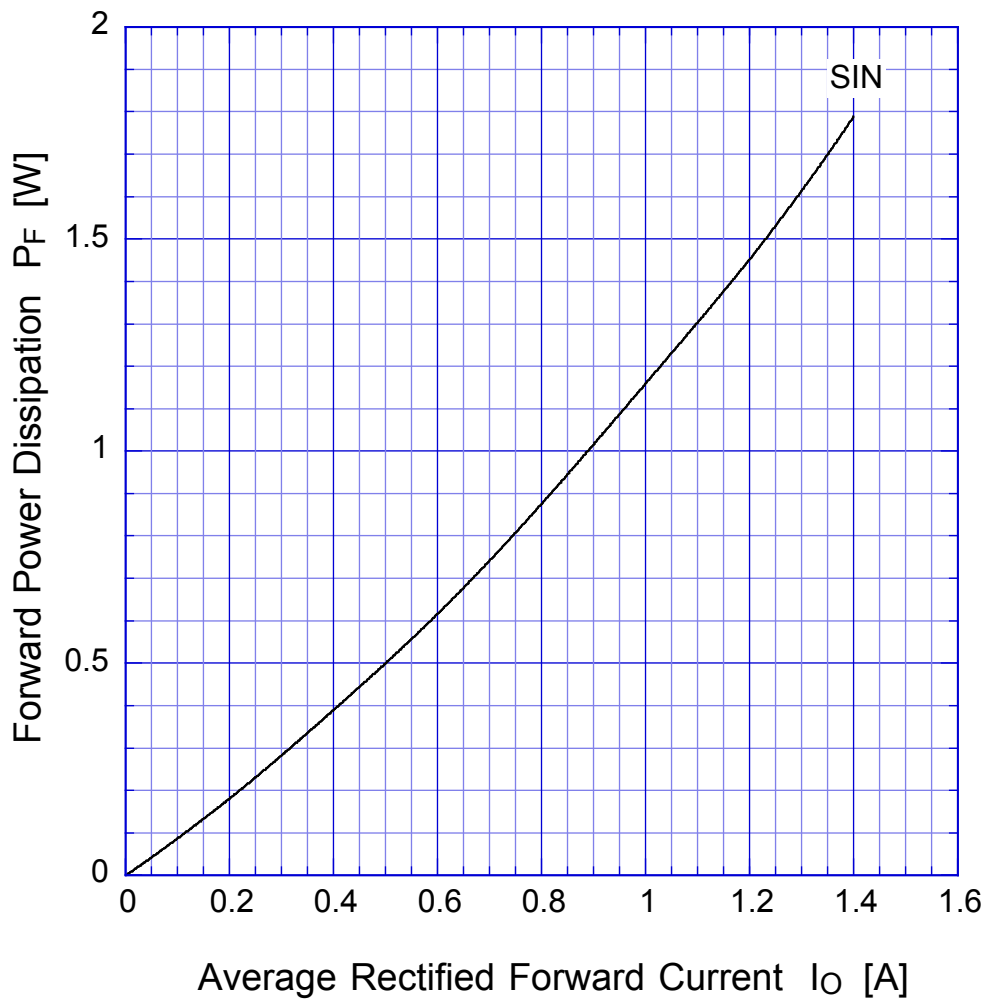
| Item | Symbol | Conditions | Ratings | Unit |
|--------------------|---------------|--|---------|-----------------------------|
| Forward Voltage | V_F | $I_F=1\text{A}$, Pulse measurement | Max.1.1 | V |
| Reverse Current | I_R | $V_R=V_{RM}$, Pulse measurement | Max.10 | μA |
| Thermal Resistance | θ_{jl} | junction to lead | Max.23 | $^{\circ}\text{C}/\text{W}$ |
| | θ_{ja} | junction to ambient On alumina substrate | Max.108 | |
| | | junction to ambient On glass-epoxy substrate | Max.157 | |

D1F x Forward Voltage



D1Fx

Forward Power Dissipation

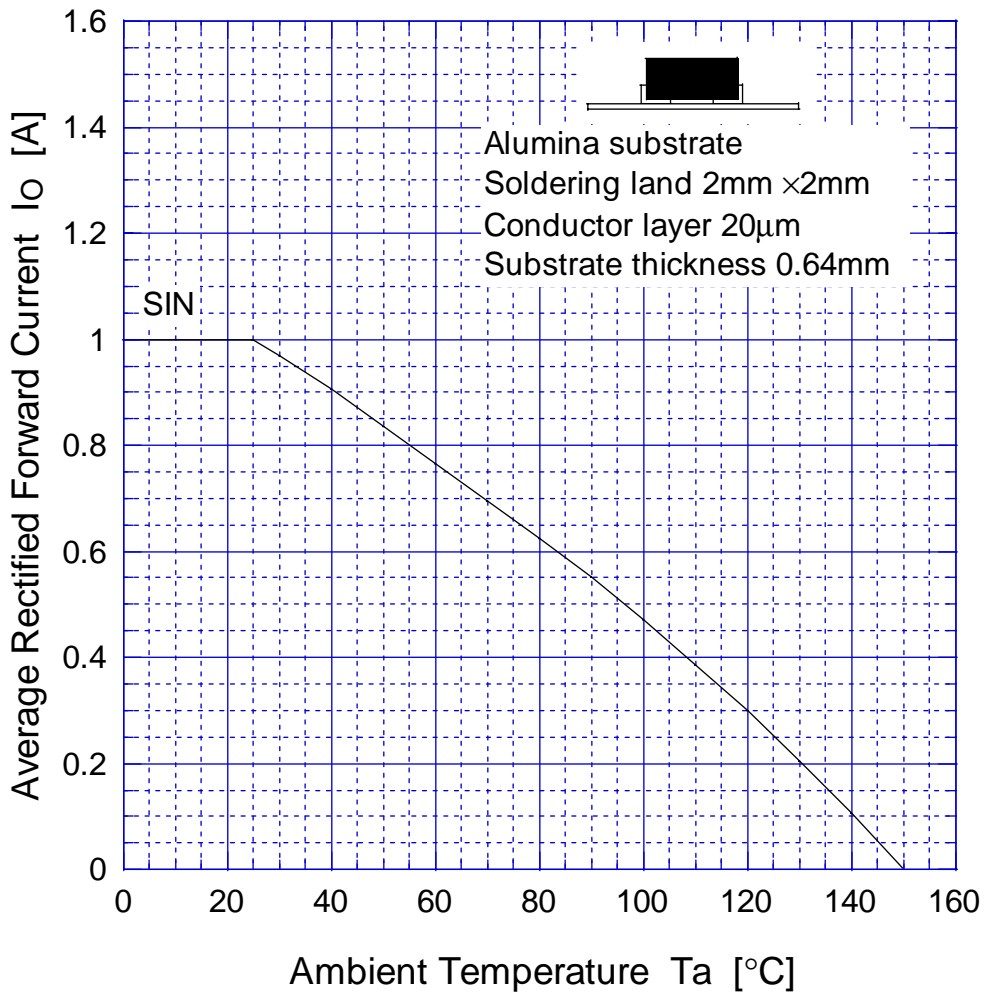


$T_j = 150^\circ\text{C}$

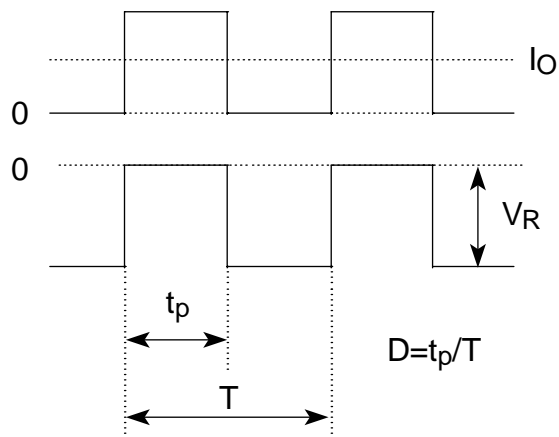
Sine wave

D1Fx

Derating Curve

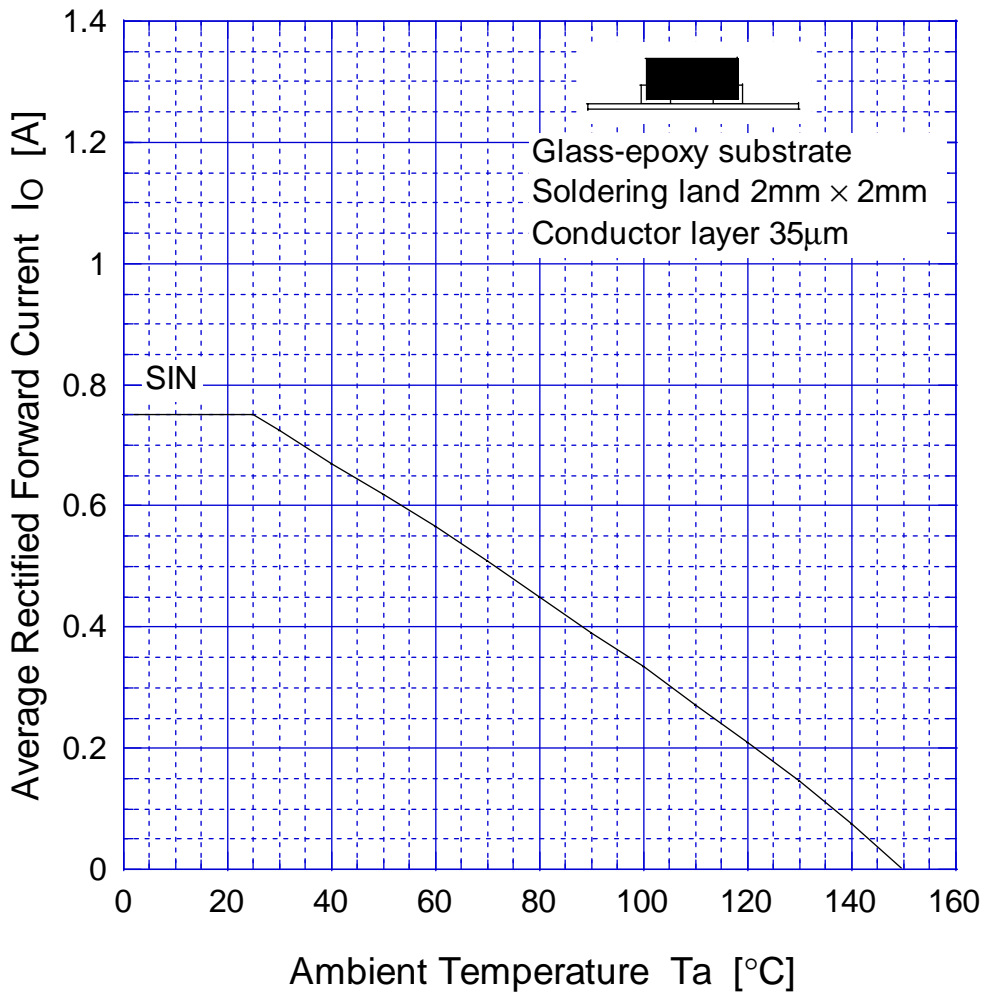


$$V_R = V_{RM}$$

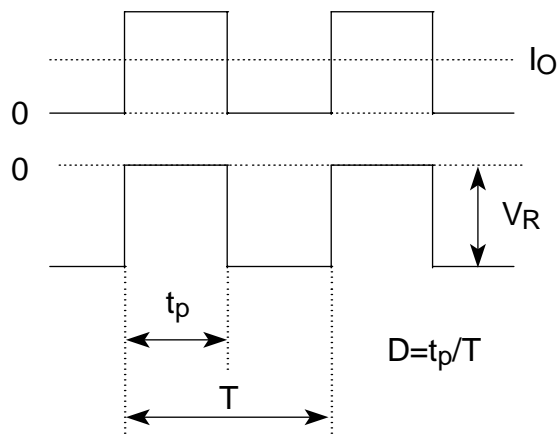


D1Fx

Derating Curve

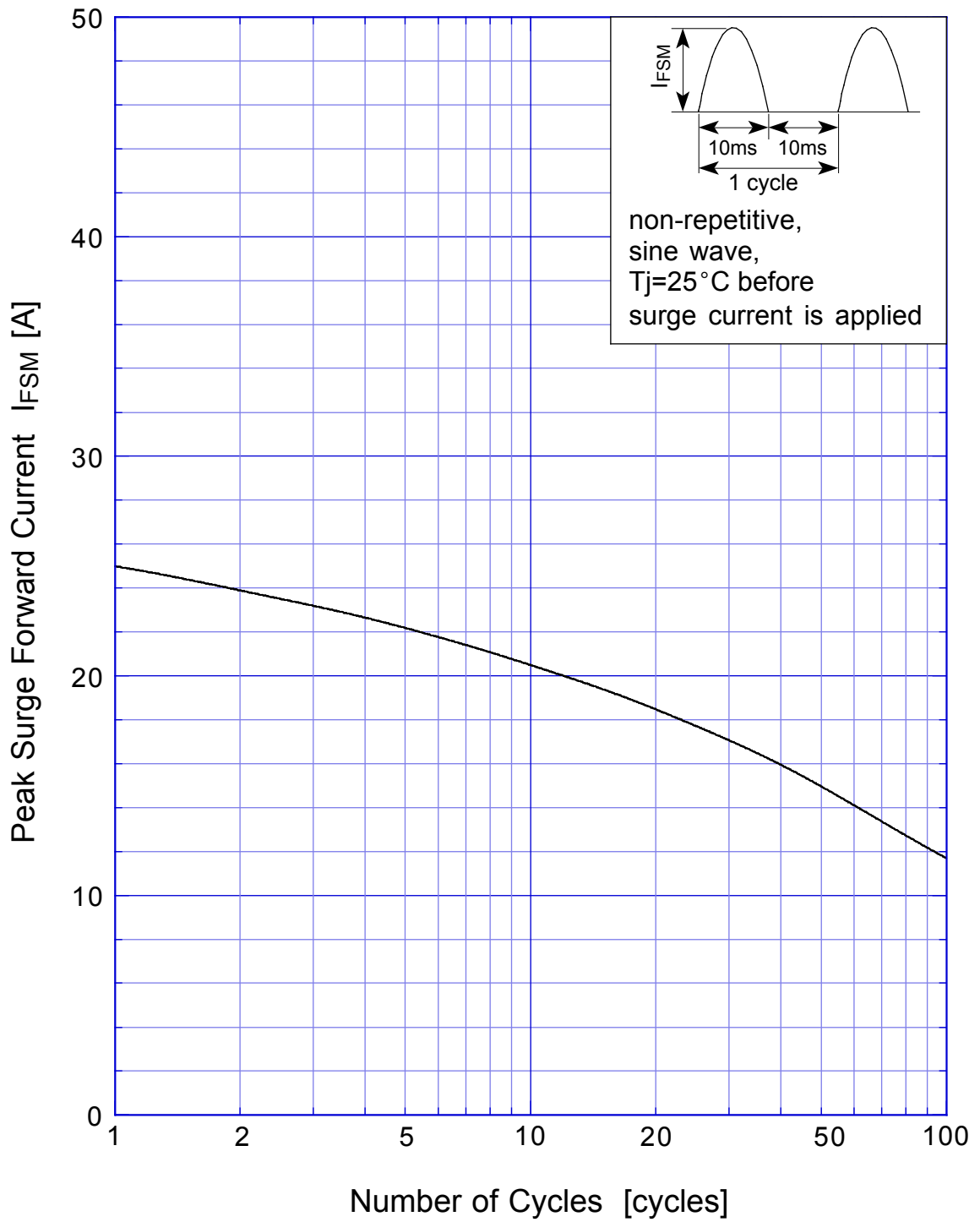


$V_R = V_{RM}$
Sine wave
R-load
Free in air



D1Fx

Peak Surge Forward Capability



This datasheet has been download from:

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Datasheets for electronics components.