

# SHINDENGEN

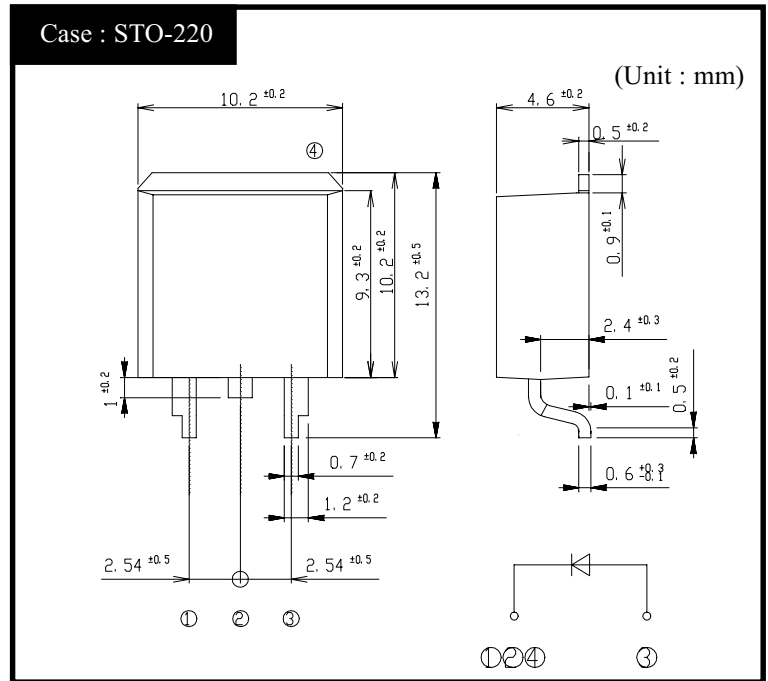
## Super Fast Recovery Rectifiers

Single

# DF20L60U

## 600V 20A

### OUTLINE DIMENSIONS



### RATINGS

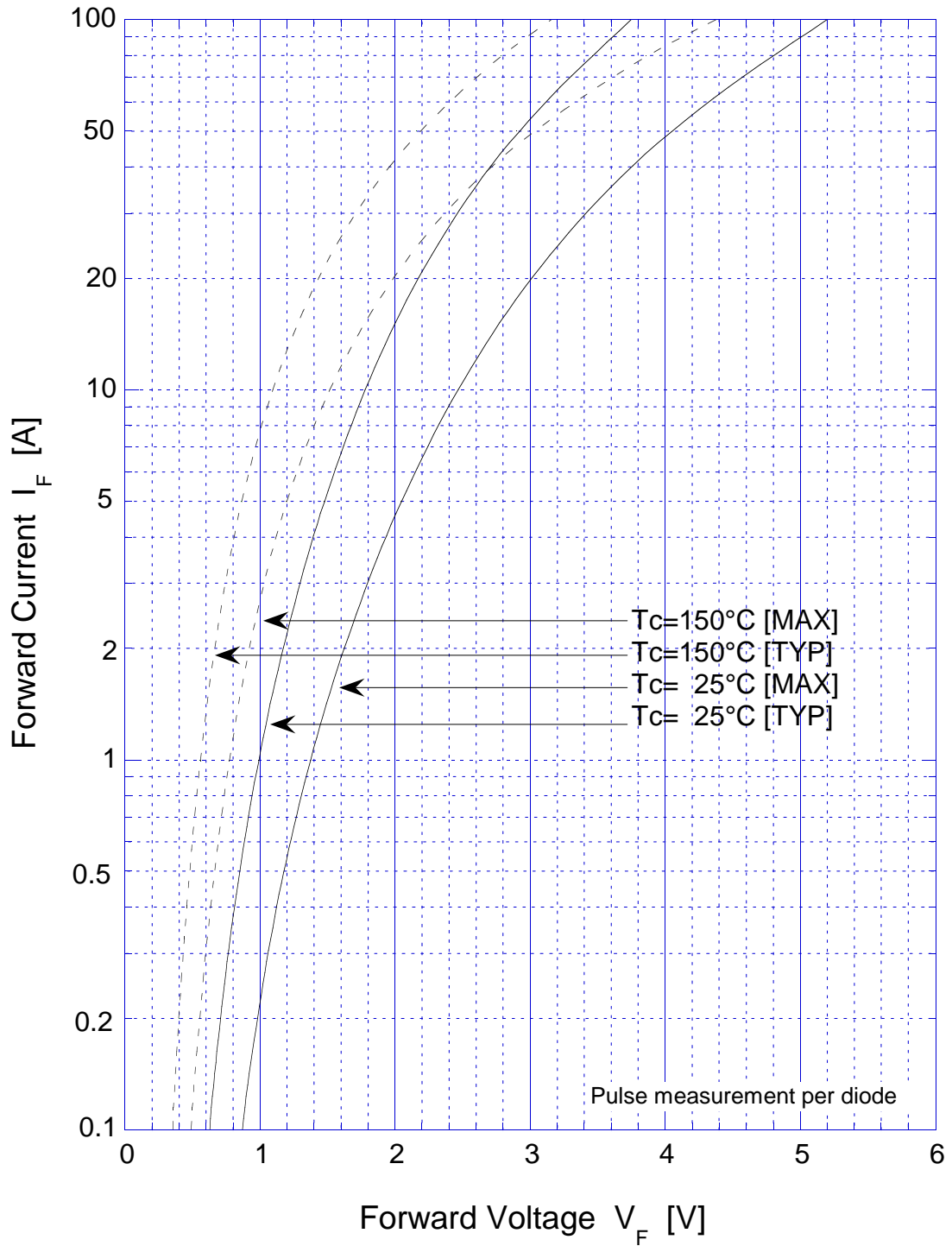
#### ●Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	VRM		600	V
Average Rectified Forward Current	Io	50Hz sine wave, R-load Tc=93°C	20	A
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	160	A

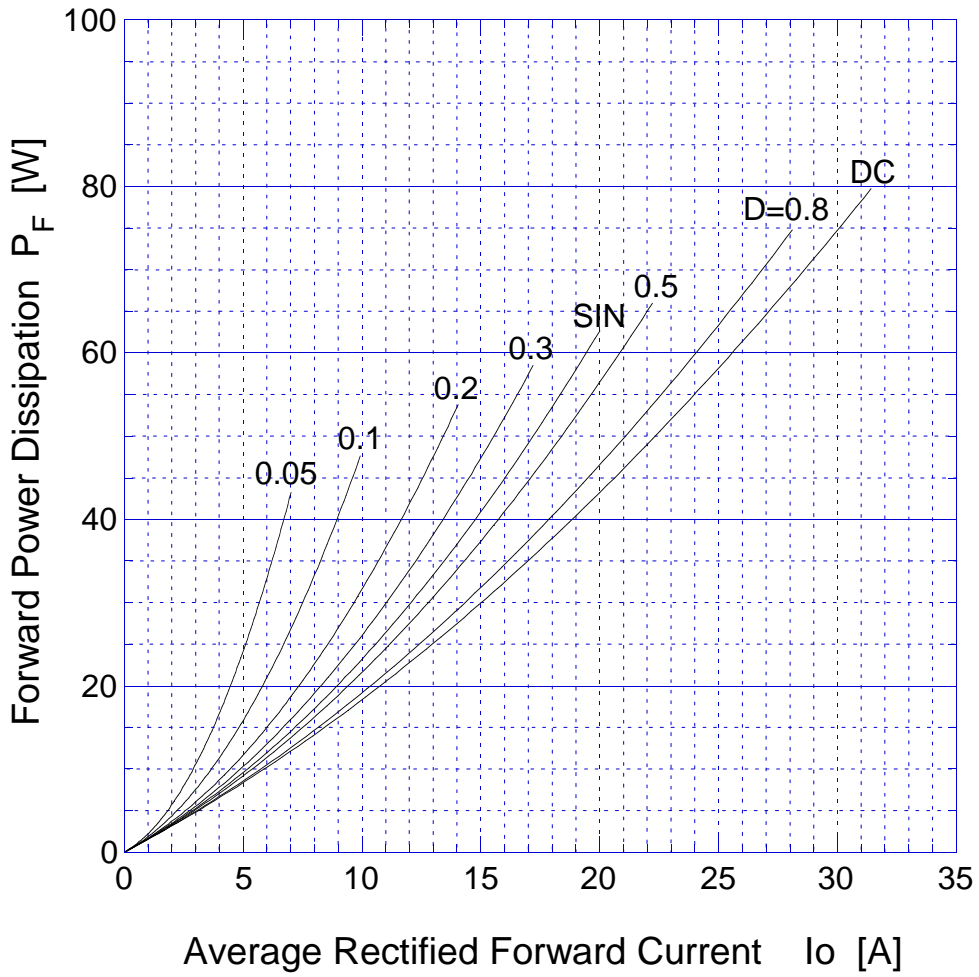
#### ●Electrical Characteristics Tc=25°C

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF=20A, Pulse measurement	Max.3.0	V
Reverse Current	IR	VR=VRM, Pulse measurement	Max.25	μA
Reverse Recovery Time	trr	IF=0.5A, IR=1.0A	Max.35	ns
Junction Capacitance	Cj	f=1MHz, VR=10V	Typ.105	pF
Thermal Resistance	θjc	junction to case	Max.0.9	°C/W

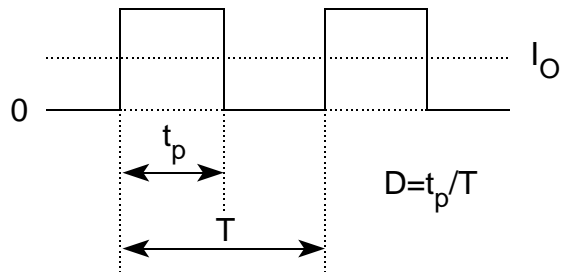
# DF20L60U Forward Voltage

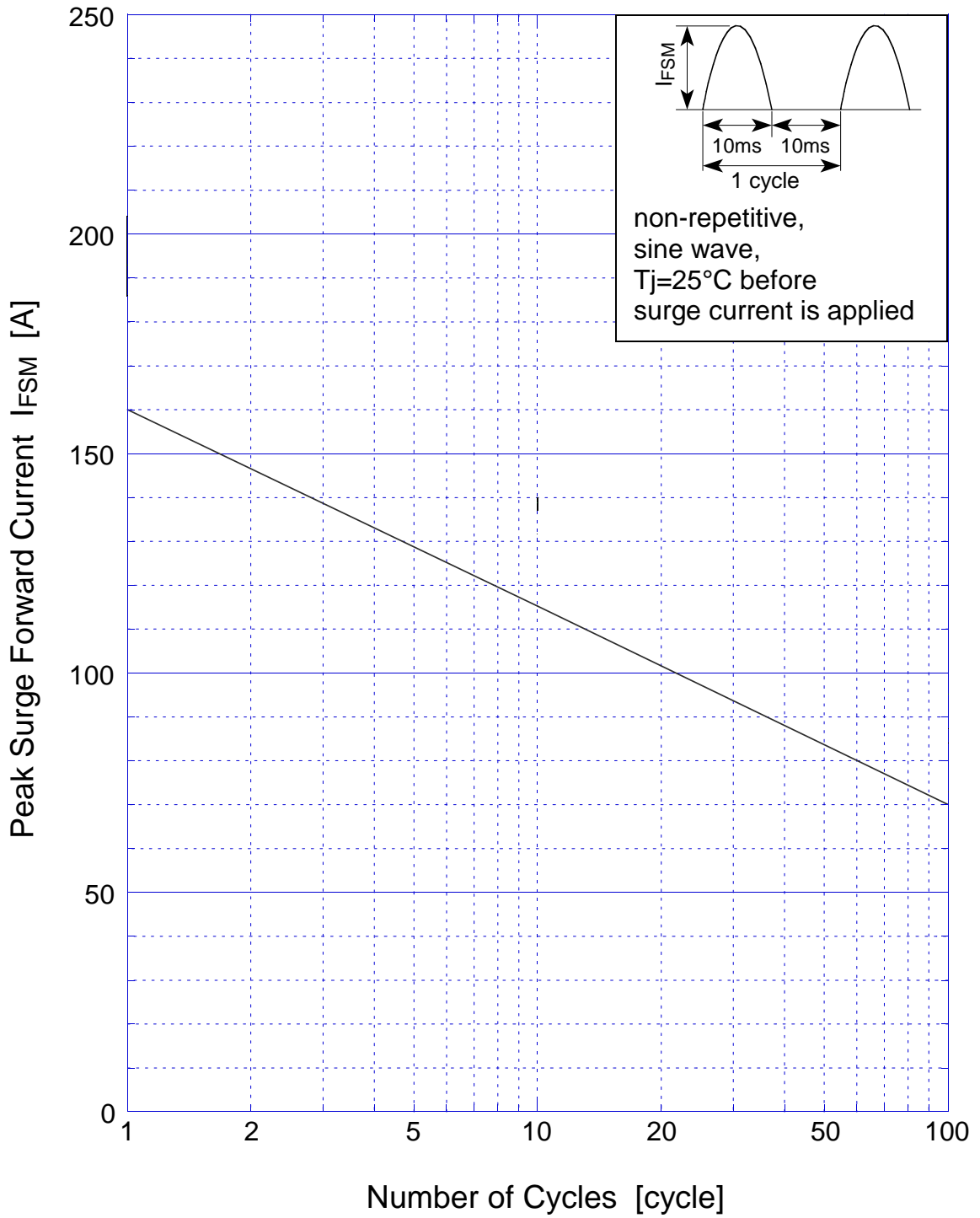


# DF20L60U Forward Power Dissipation

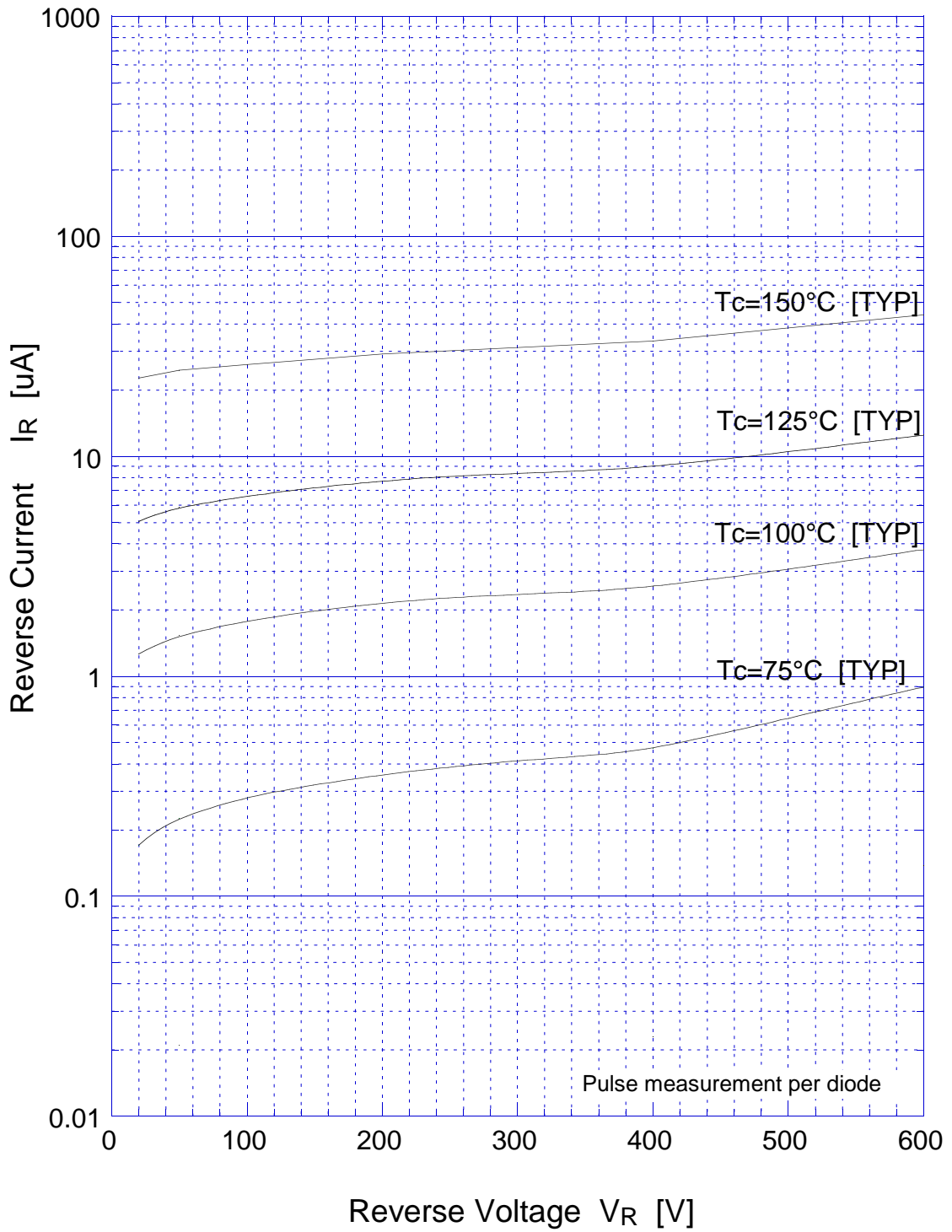


$T_j = 150^\circ\text{C}$

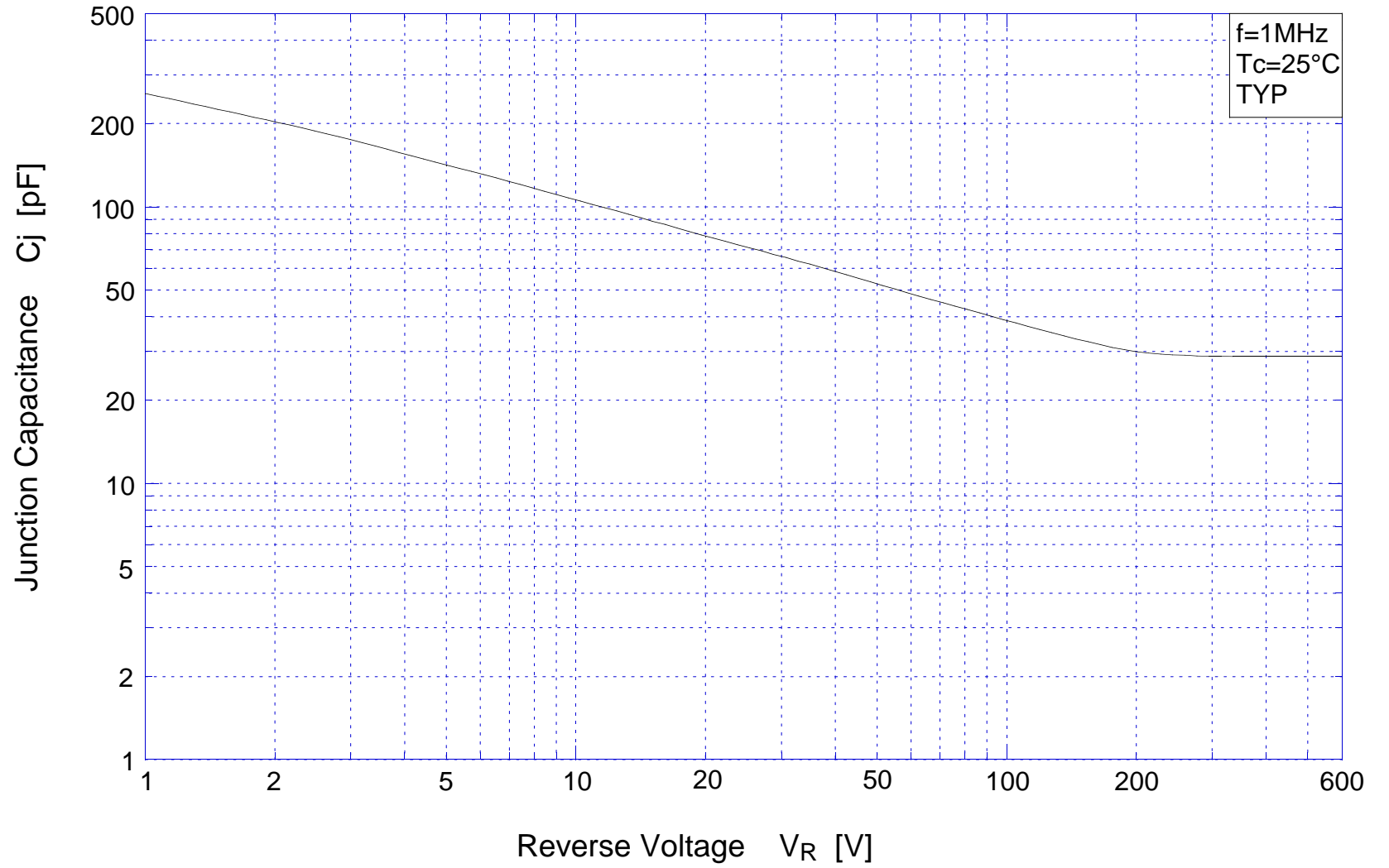




# DF20L60U Reverse Current

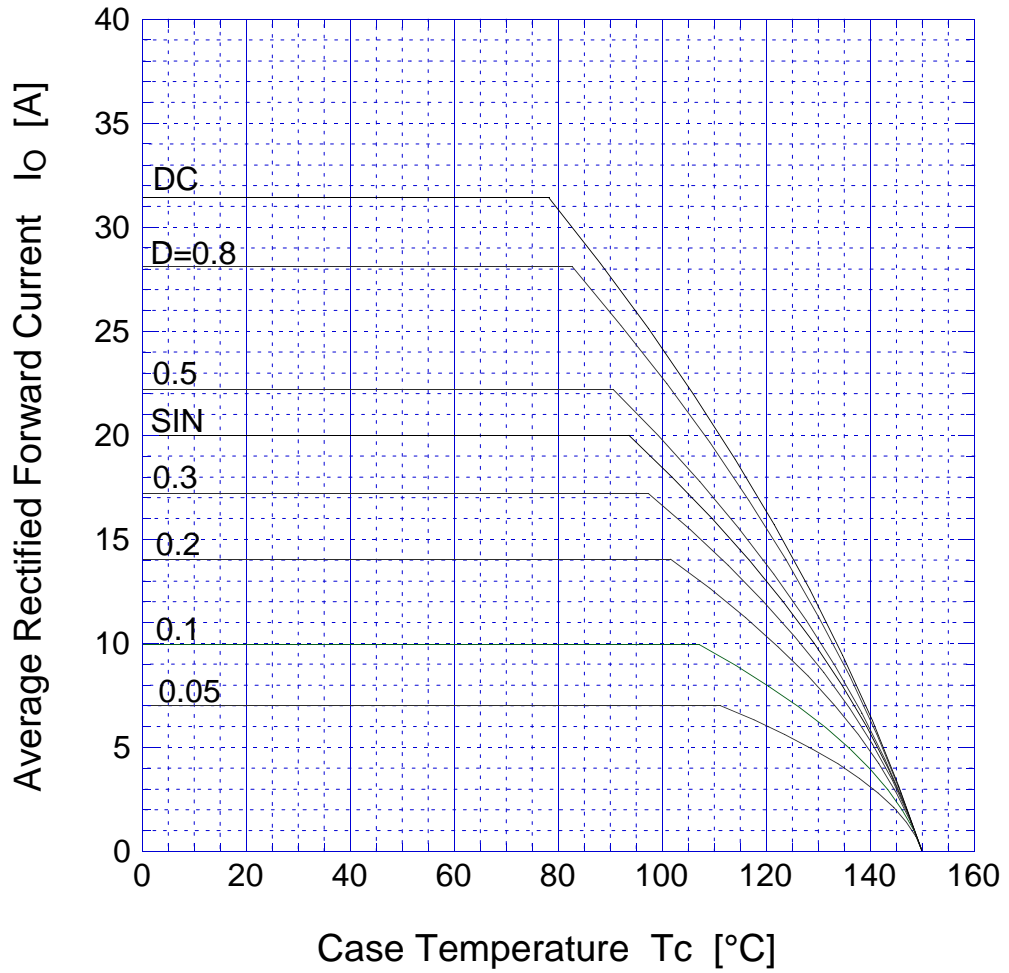


# DF20L60U Junction Capacitance

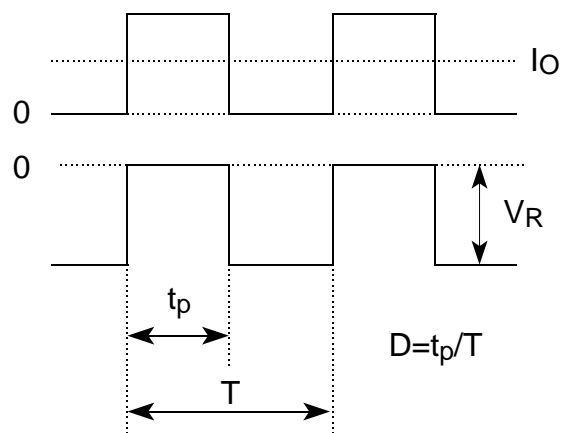


# DF20L60U

# Derating Curve

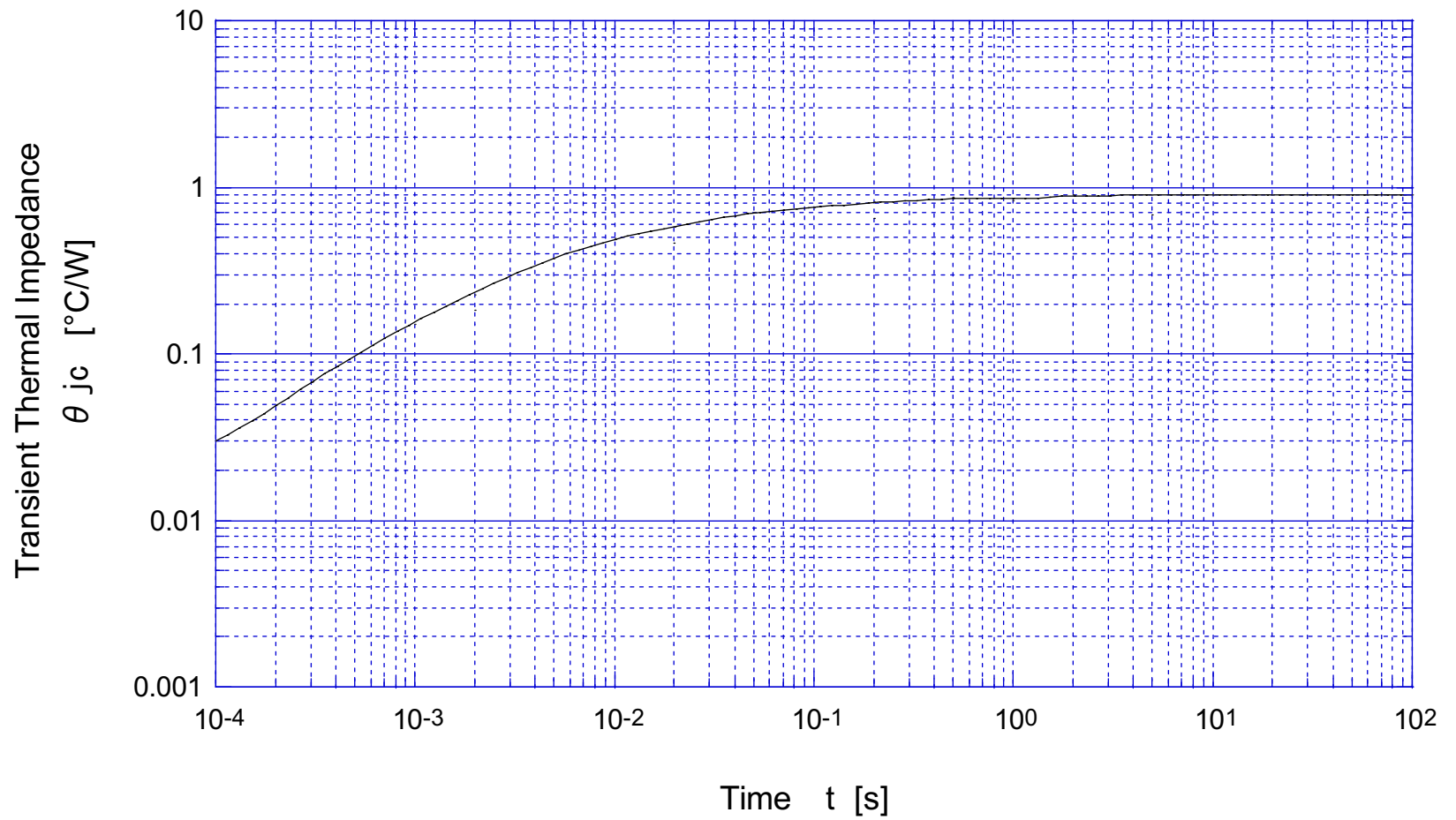


$$V_R = V_{RM}$$



# DF20L60U Transient Thermal Impedance

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This datasheet has been download from:

[www.datasheetcatalog.com](http://www.datasheetcatalog.com)

Datasheets for electronics components.