

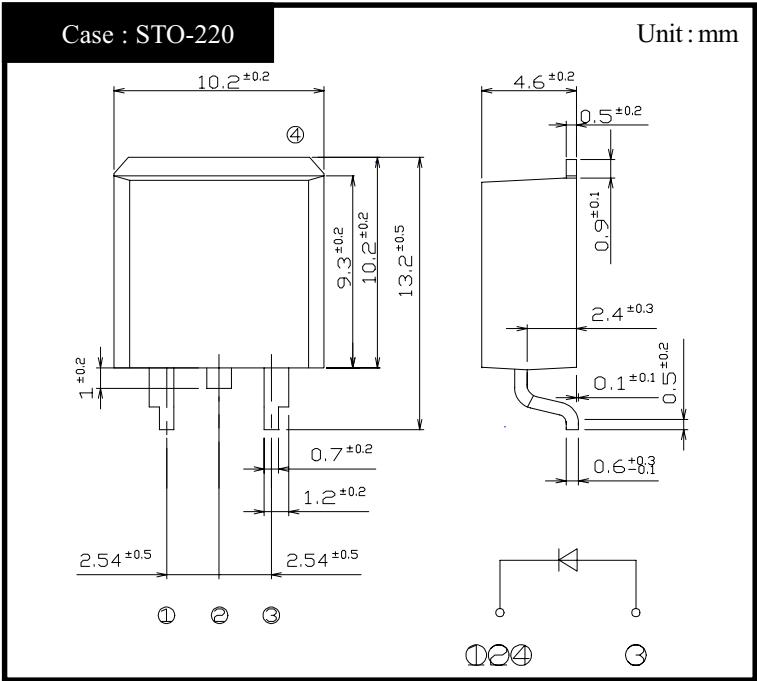
DF25V60

600V 25A

FEATURES

- 1. Applicable to Automatic Insertion
- 2. High IFSM

OUTLINE DIMENSIONS



RATINGS

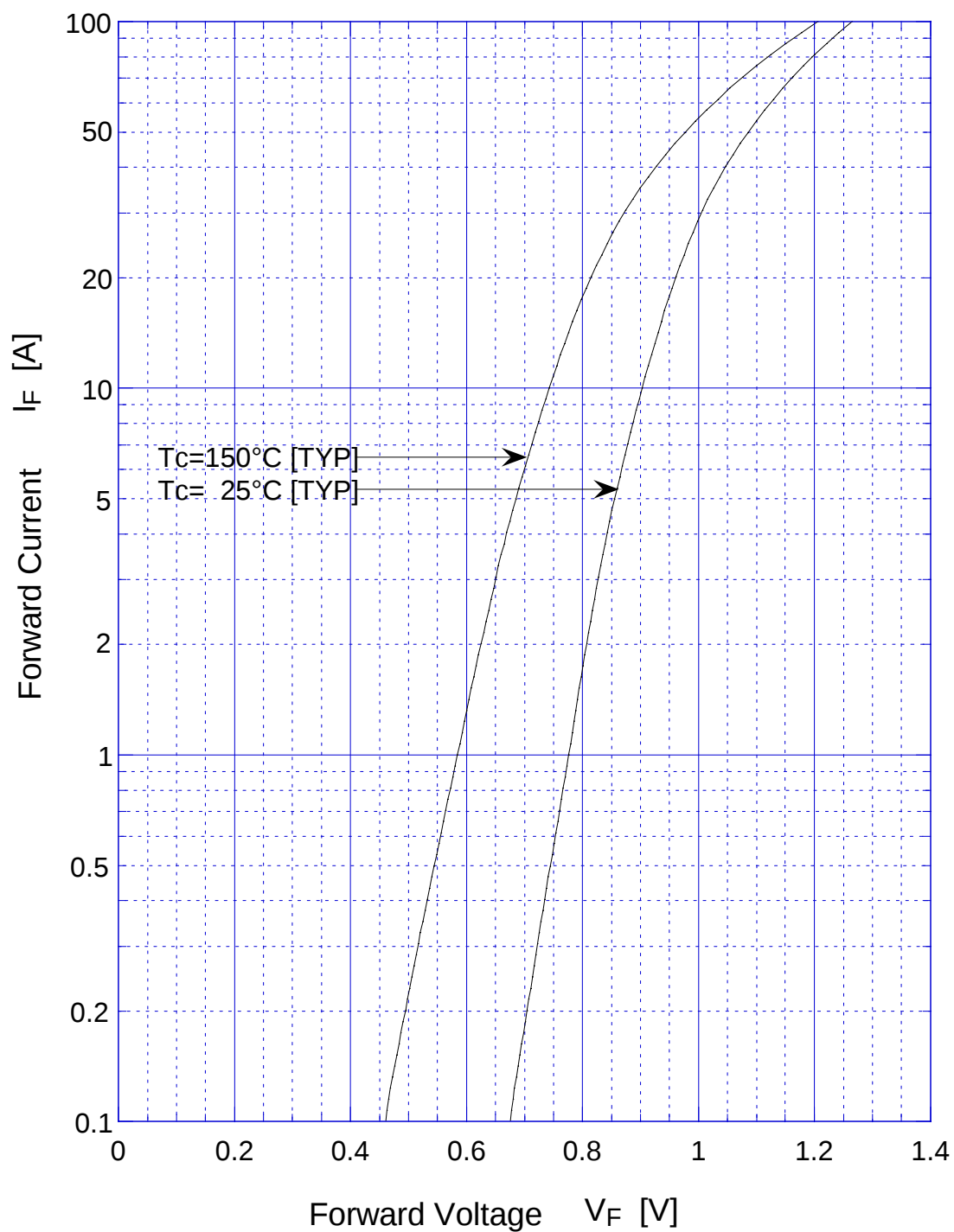
●Absolute Maximum Ratings (If not specified Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V _{RM}		600	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, Tc=136°C	25	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25°C	400	A
Current Squared Time	I ² t	1ms≤t<10ms T j=25°C	600	A ² s

●Electrical Characteristics (If not specified Tc=25°C)

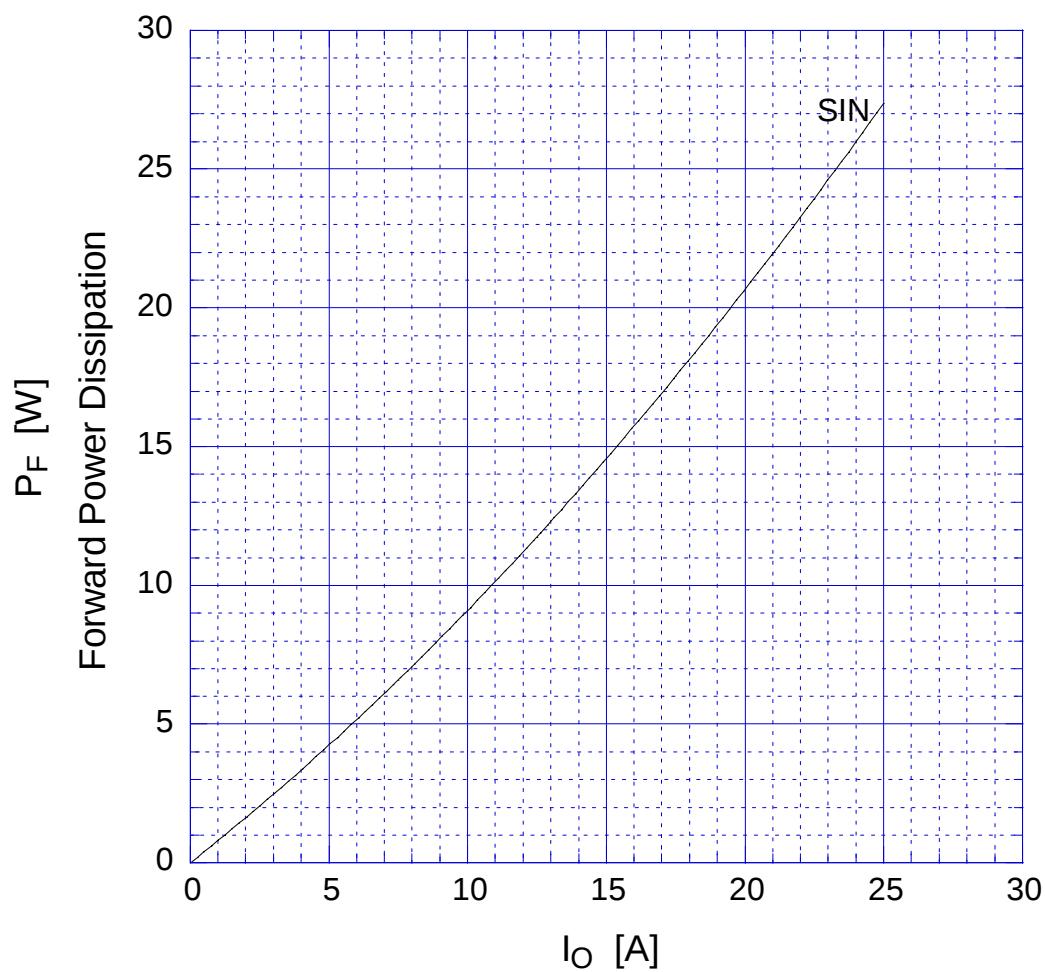
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	IF=25A, Pulse measurement	Max 1.10	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement	Max 10	μ A
Thermal Resistance	θ jc	junction to case	Max 0.5	°C/W

DF25V60 Forward Voltage



DF25V60

Forward Power Dissipation



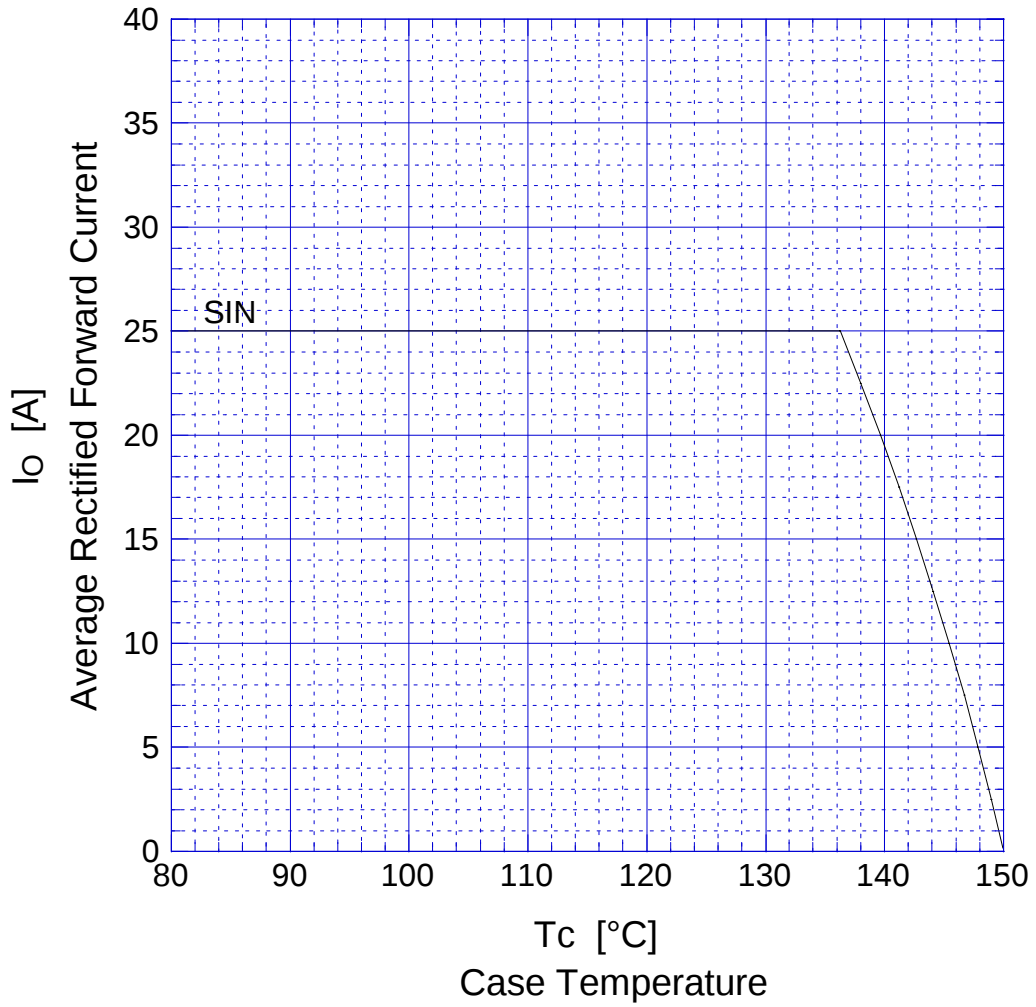
Average Rectified Forward Current

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

sine wave

DF25V60

Derating Curve



$V_R = V_{RM}$
sine wave
R - Load
with heatsink

DF25V60

Peak Surge Forward Capability

