

SHINDENGEN

General Purpose Rectifiers

Single

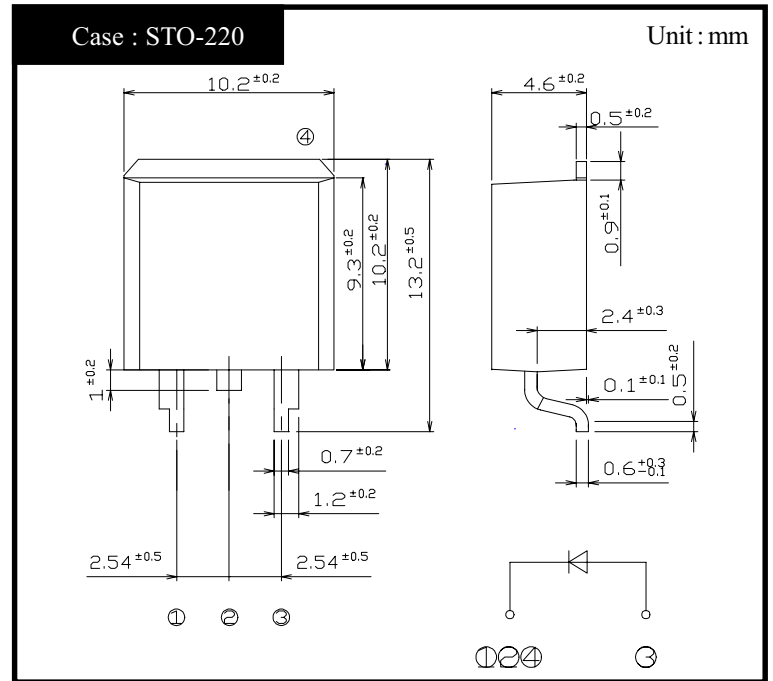
DF25V60

600V 25A

FEATURES

1. Applicable to Automatic Insertion
2. High IFSM

OUTLINE DIMENSIONS



RATINGS

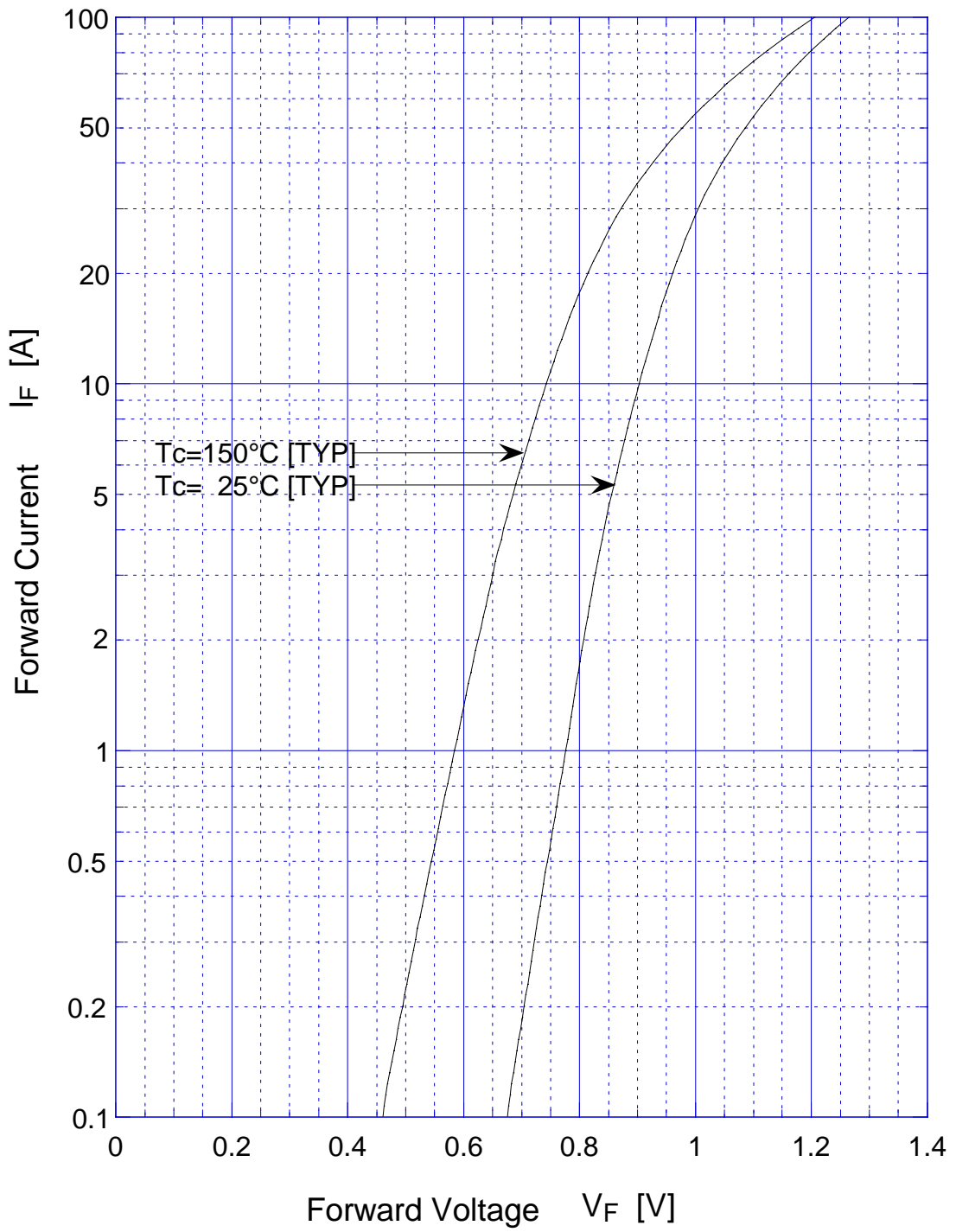
● Absolute Maximum Ratings (If not specified T_c=25°C)

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

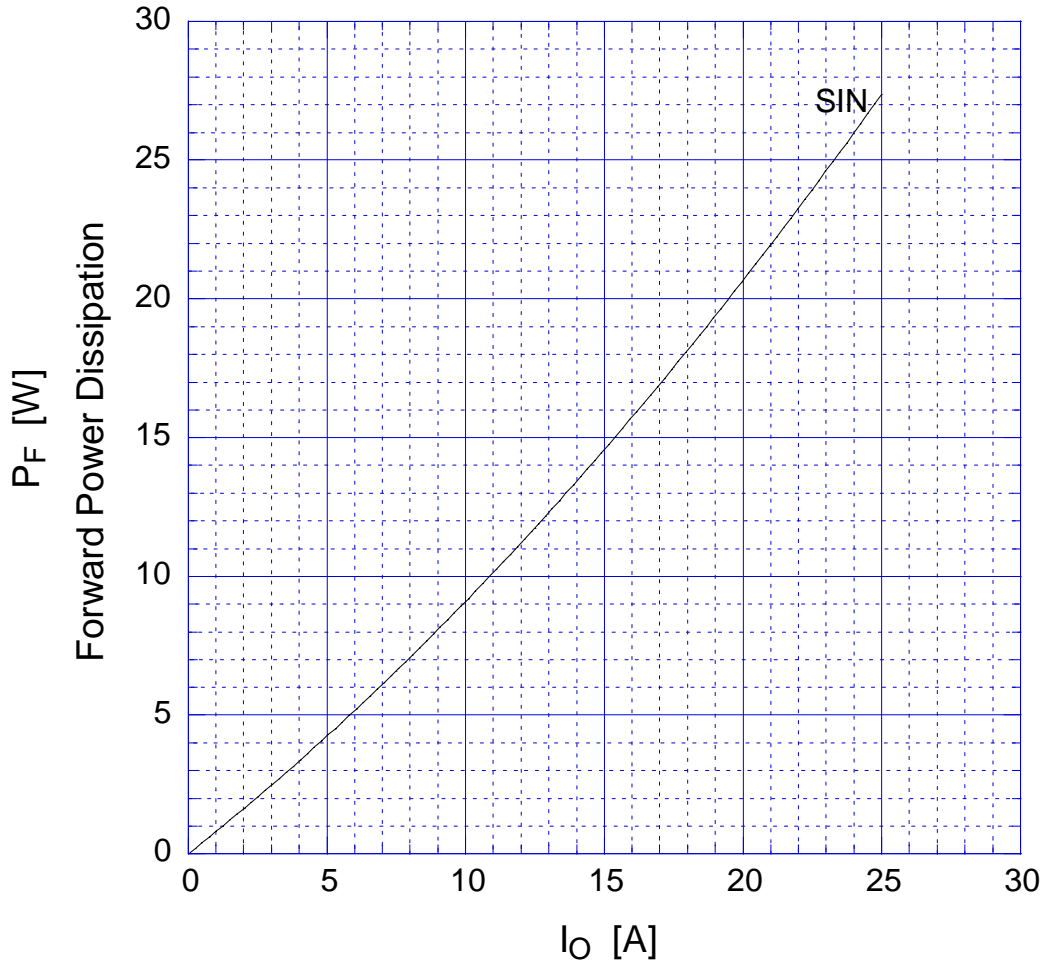
● Electrical Characteristics (If not specified T_c=25°C)

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

DF25V60 Forward Voltage



DF25V60 Forward Power Dissipation



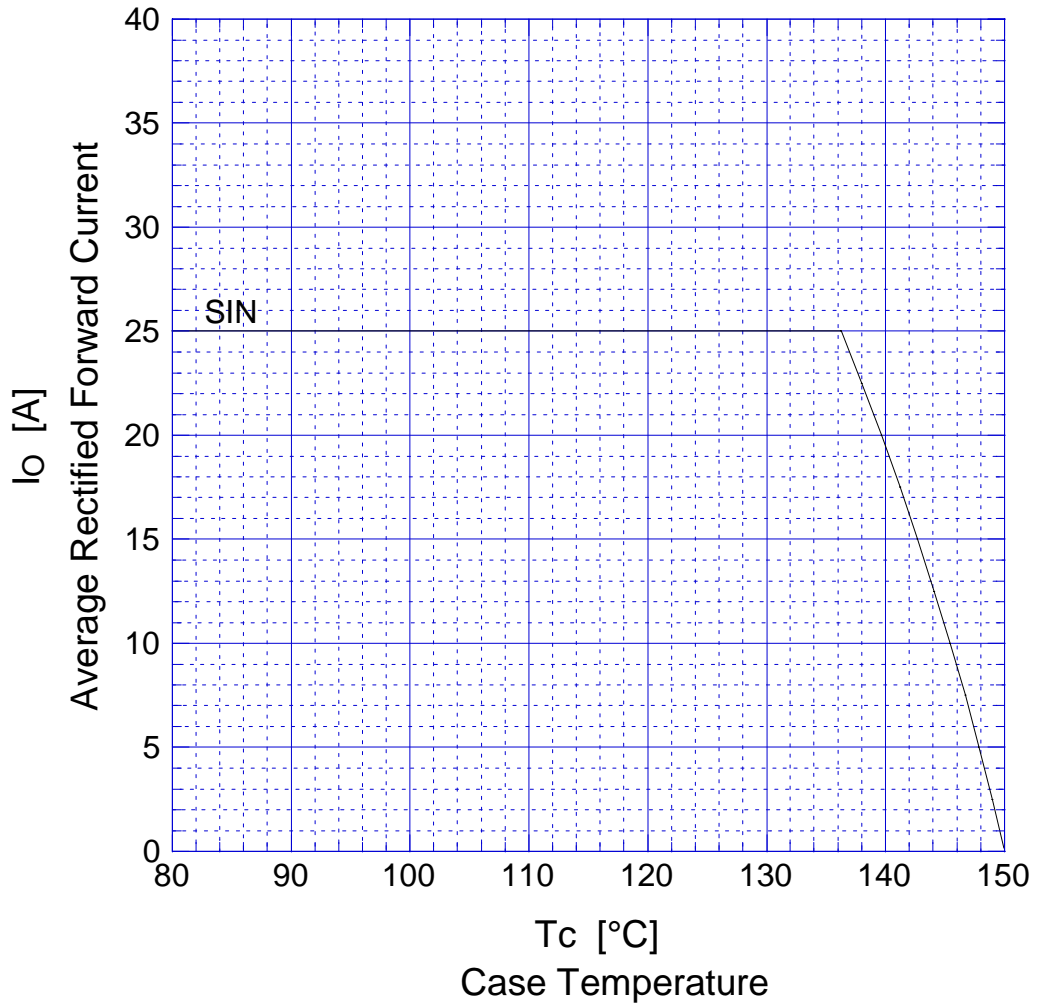
Average Rectified Forward Current

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

sine wave

DF25V60

Derating Curve



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

DF25V60

Peak Surge Forward Capability

