

SHINDENGEN

General Purpose Rectifiers

Single

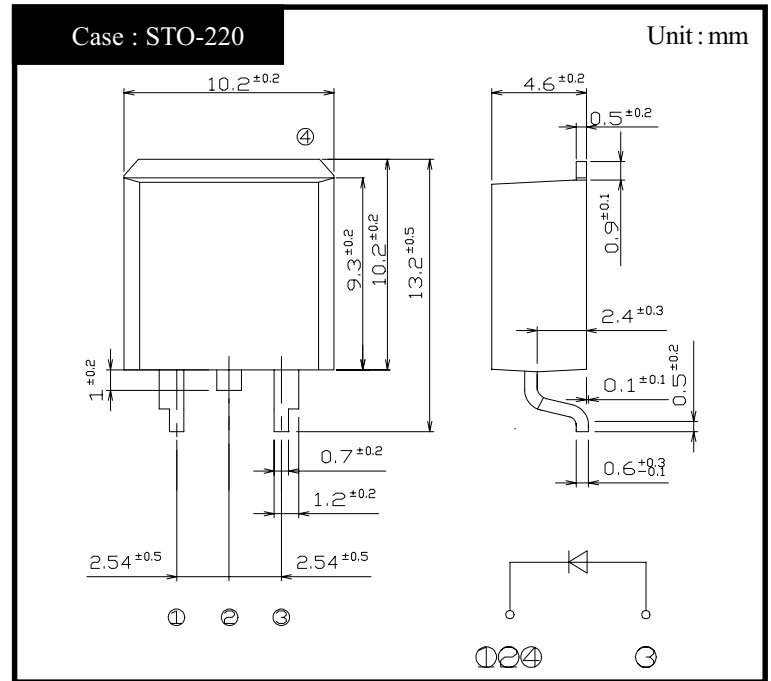
DF25V60

600V 25A

FEATURES

1. Applicable to Automatic Insertion
2. High IFSM

OUTLINE DIMENSIONS



RATINGS

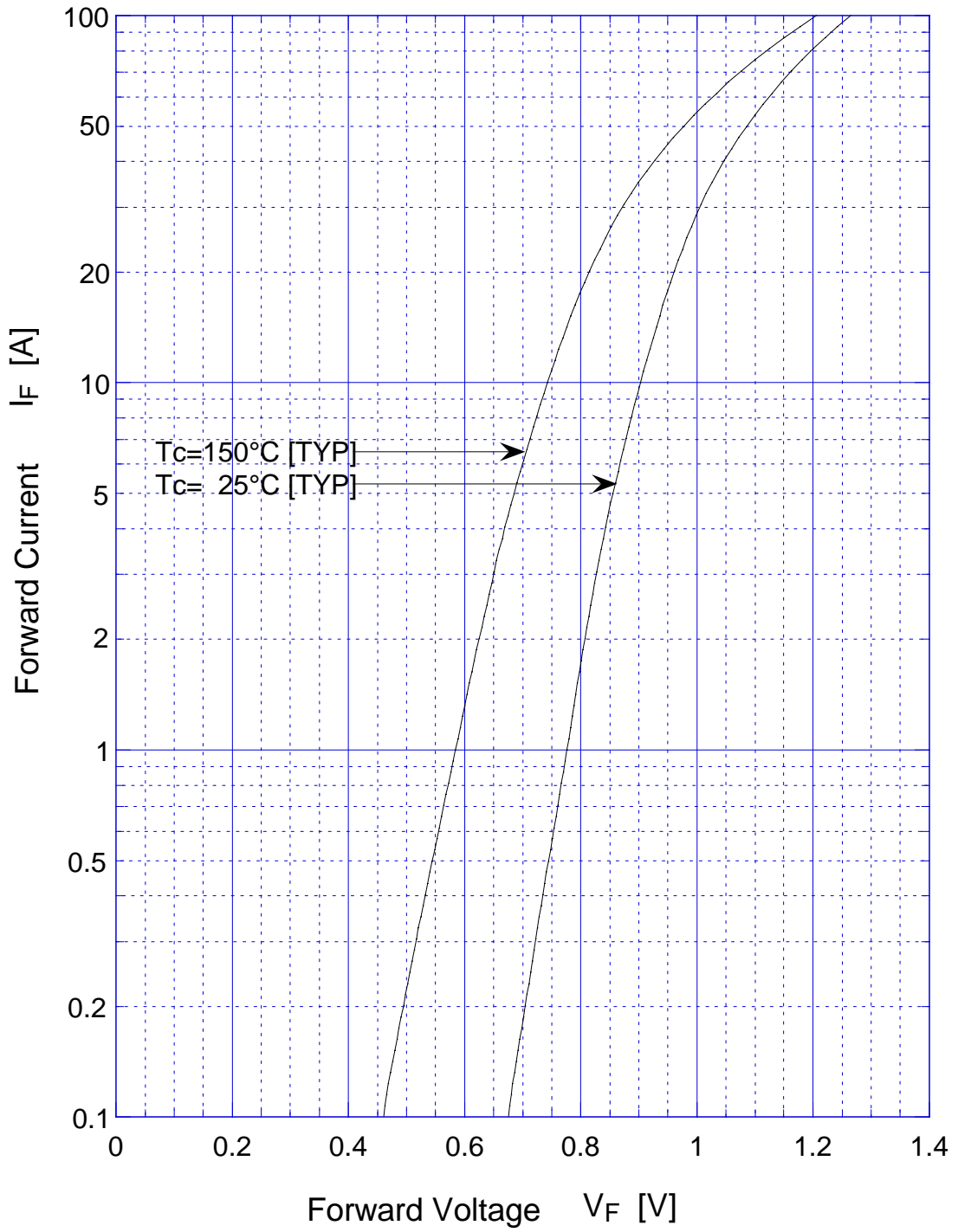
● Absolute Maximum Ratings (If not specified $T_c=25^\circ\text{C}$)

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}		600	V
Average Rectified Forward Current	I_O	50Hz sine wave, R-load, $T_c=136^\circ\text{C}$	25	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, $T_j=25^\circ\text{C}$	400	A
Current Squared Time	I^2t	$1\text{ms} \leq t < 10\text{ms}$ $T_j=25^\circ\text{C}$	600	A^2s

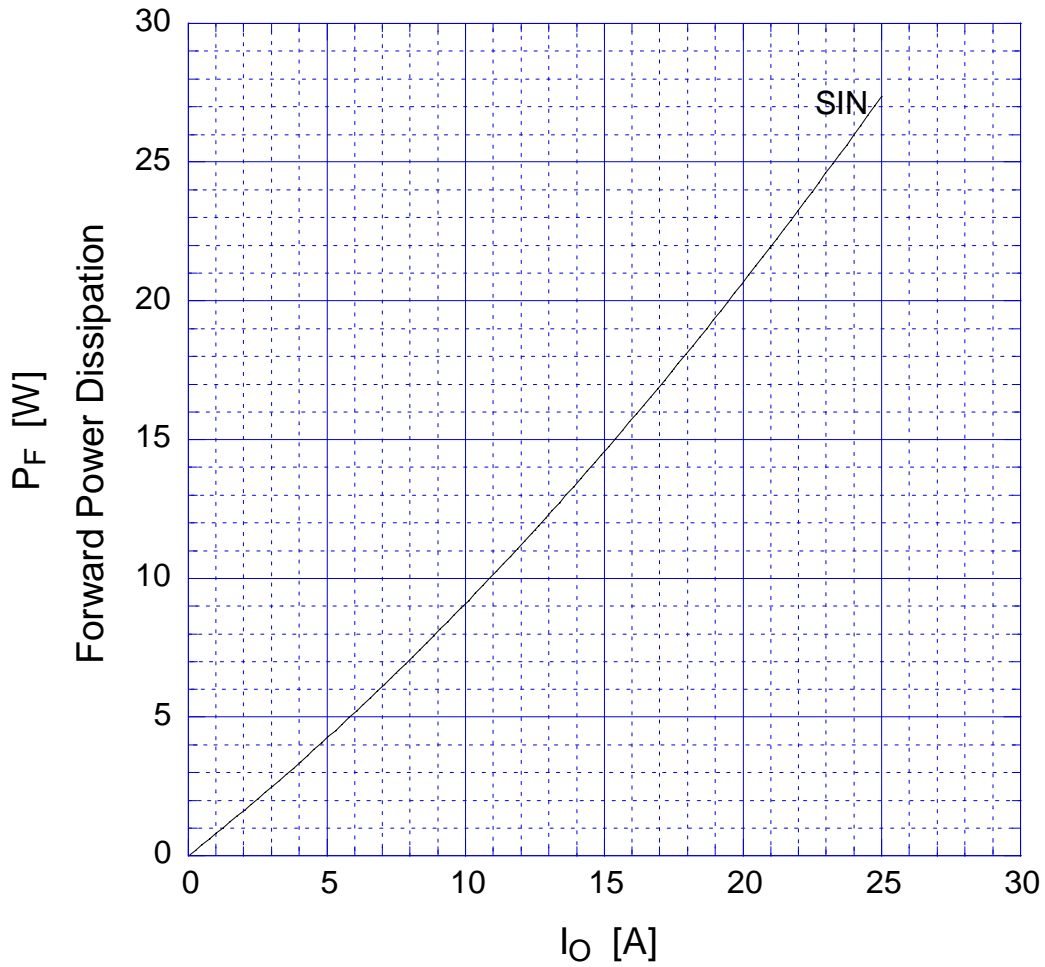
● Electrical Characteristics (If not specified $T_c=25^\circ\text{C}$)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=25\text{A}$, 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	$^\circ\text{C/W}$

DF25V60 Forward Voltage



DF25V60 Forward Power Dissipation



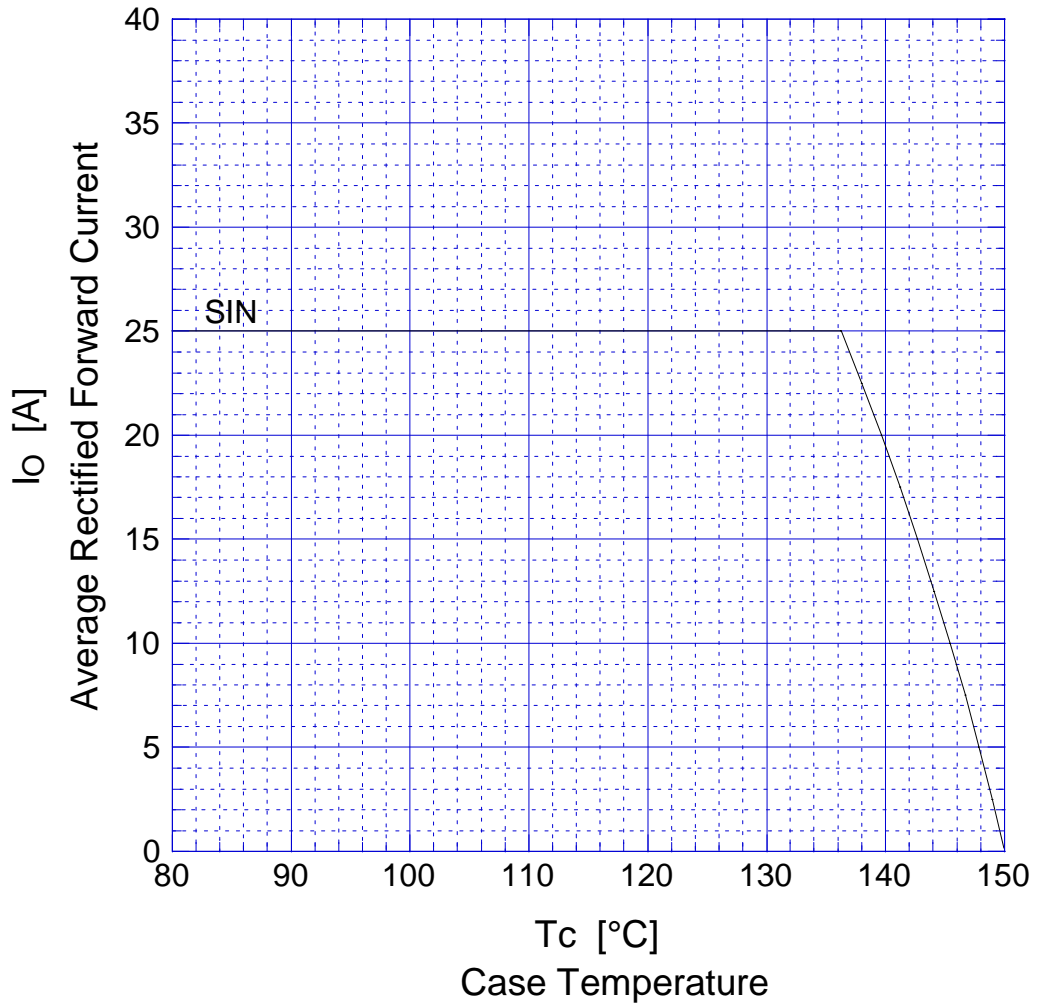
Average Rectified Forward Current

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

sine wave

DF25V60

Derating Curve



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

DF25V60

Peak Surge Forward Capability

