

SHINDENGEN

General Purpose Rectifiers

Single

D3F60

600V 3A

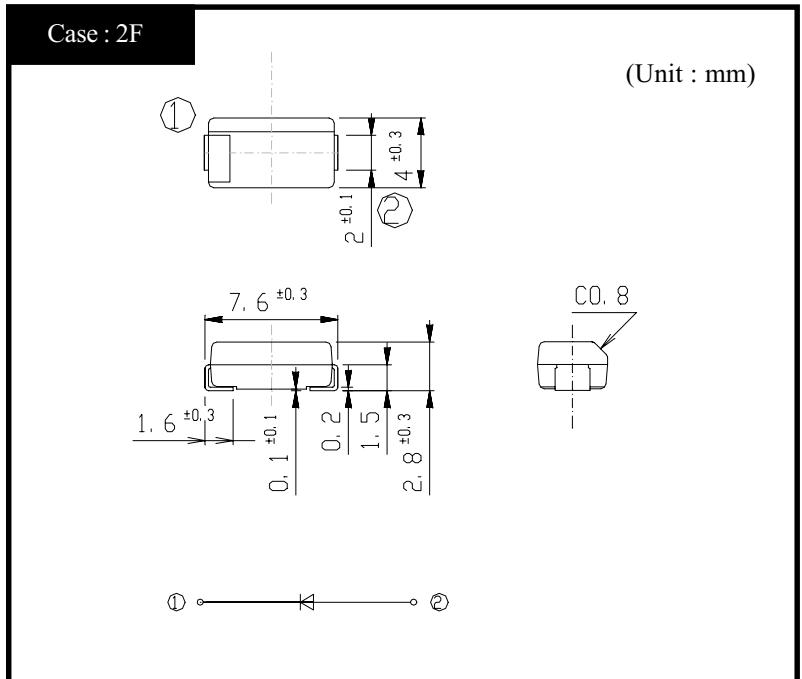
FEATURES

- 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 $T_I=25^{\circ}\text{C}$)

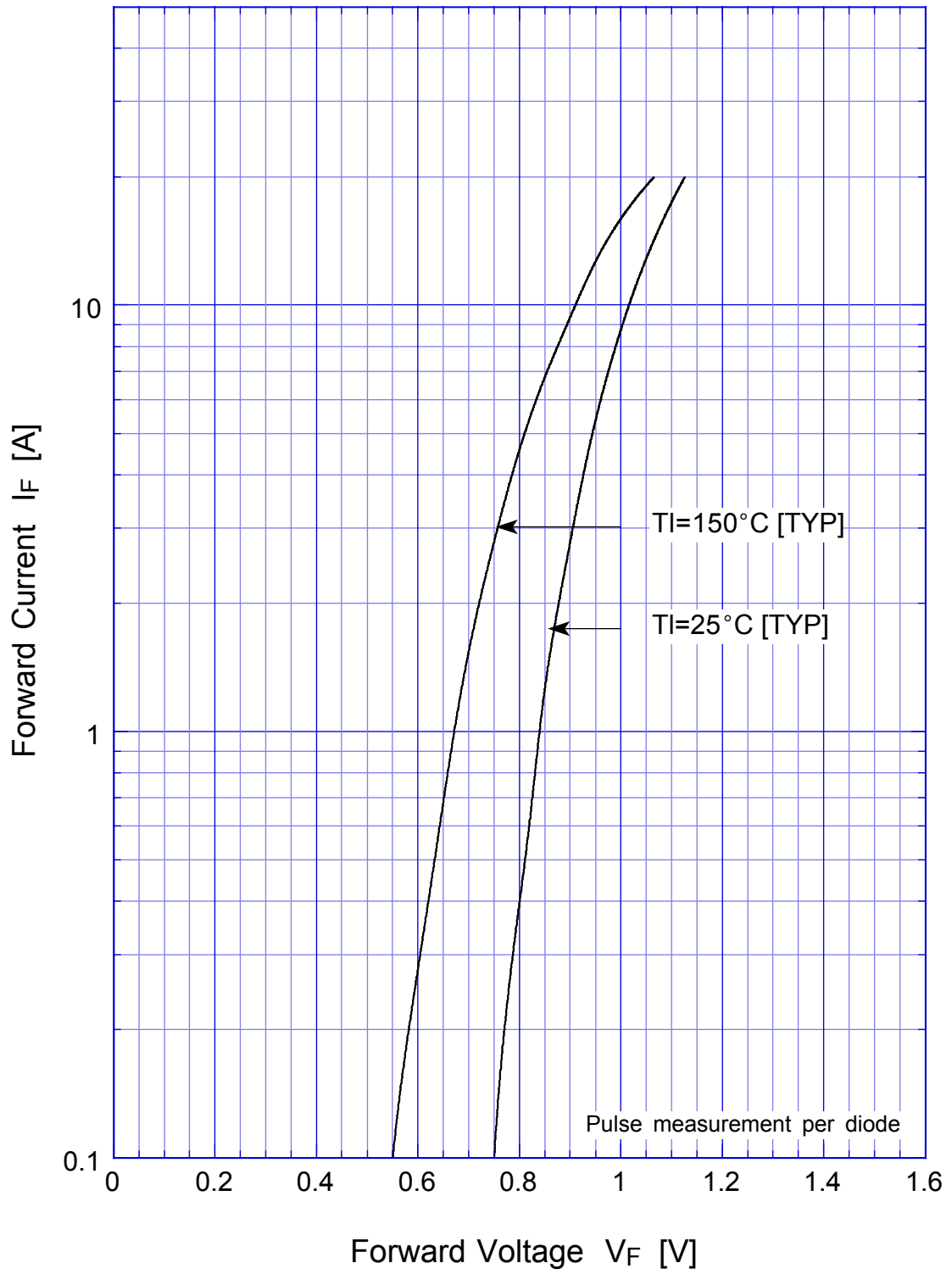
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T_{stg}		-55~150	$^{\circ}\text{C}$
Operating Junction Temperature	T_j		150	$^{\circ}\text{C}$
Maximum Reverse Voltage	V_{RM}		600	V
Average Rectified Forward Current	I_O	50Hz sine wave, R-load $T_I=80^{\circ}\text{C}$	3	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^{\circ}\text{C}$	150	A

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

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=3\text{A}$, Pulse measurement	Max.1.05	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.80	
		junction to ambient, On glass-epoxy substrate	Max.115	

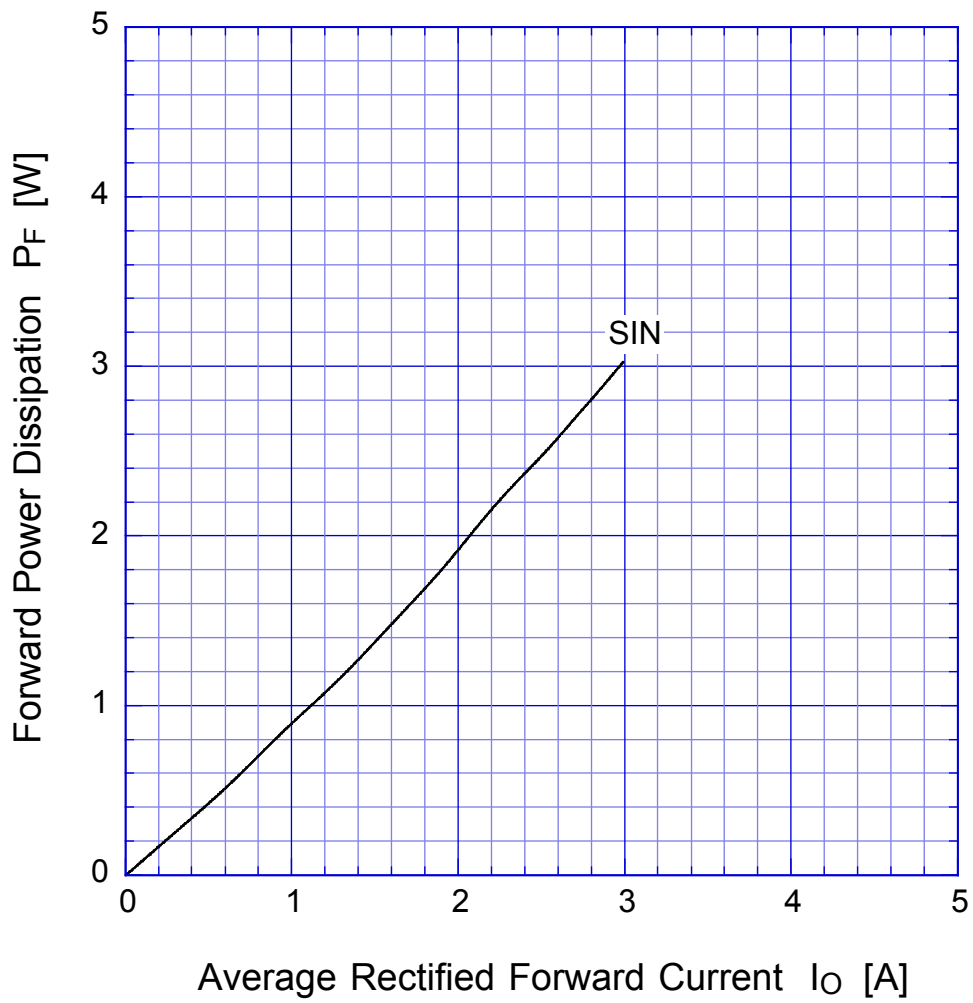
D3F60

Forward Voltage



D3F60

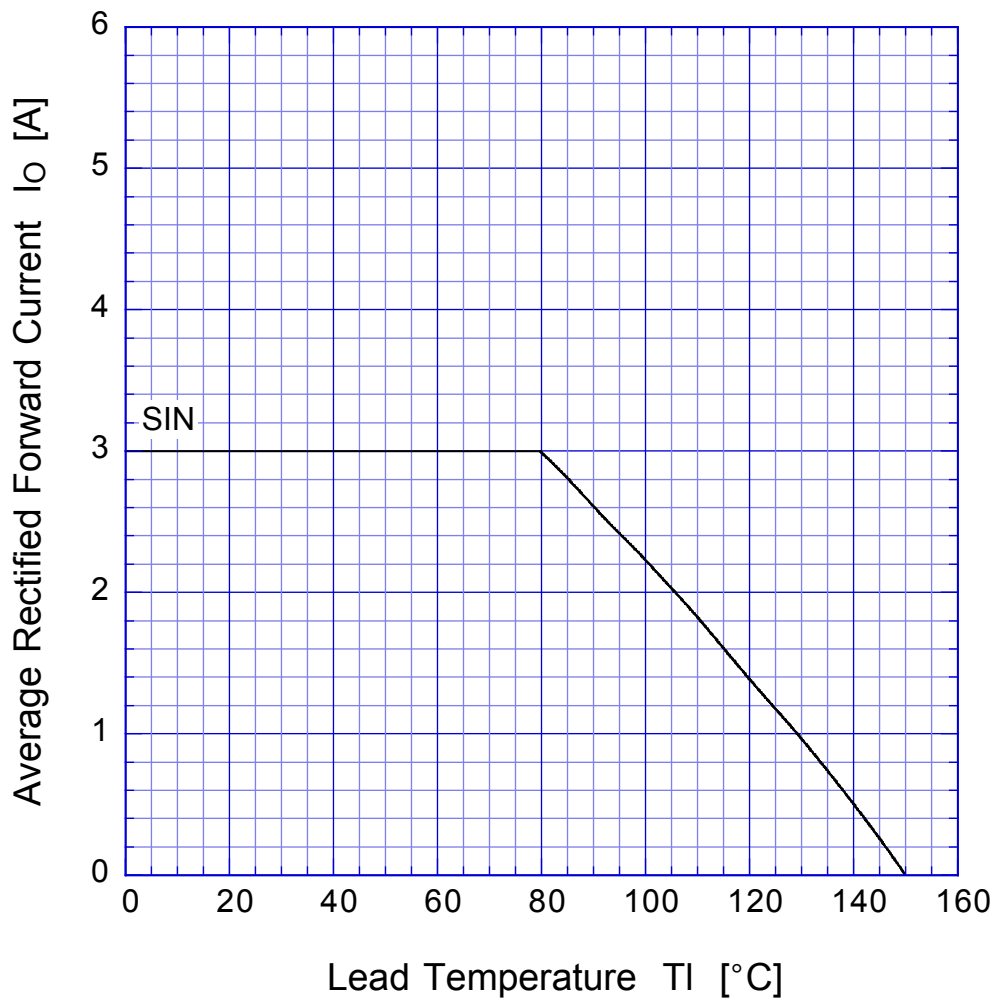
Forward Power Dissipation



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

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Derating Curve



Sine wave
R-load

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Peak Surge Forward Capability

