ShinDengen

D75JFT80V

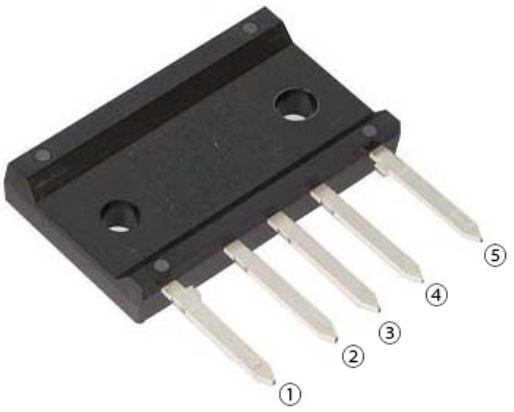
Bridge Diodes
800V, 75A

Feature

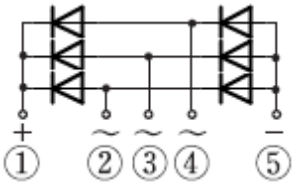
- Compact SIP
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): JF



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	V_{RRM}		800	V
Average forward current	I_F(AV)	50Hz sine wave, Resistance load, With heatsink, Tc=109°C	75	A
Average forward current	I_F(AV)	50Hz sine wave, Resistance load, Without heatsink, Ta=25°C	5.45	A
Surge forward current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, per diode, Tj=25°C	400	A
Surge forward current	I_{FSM1}	tp=1ms, Non-repetitive, per diode, Tj=25°C	1265	A
Current squared time	I^2t	1ms≦t＜10ms, per diode	800	A^2s
Dielectric strength	Vdis	Terminals to case, AC 1 minute, Except top (opposite side of the terminal side) of the mold case	2.5	kV
Mounting torque	TOR	(Recommended torque : 1.2N･m)	1.5	N･m

※ ：See the original Specifications

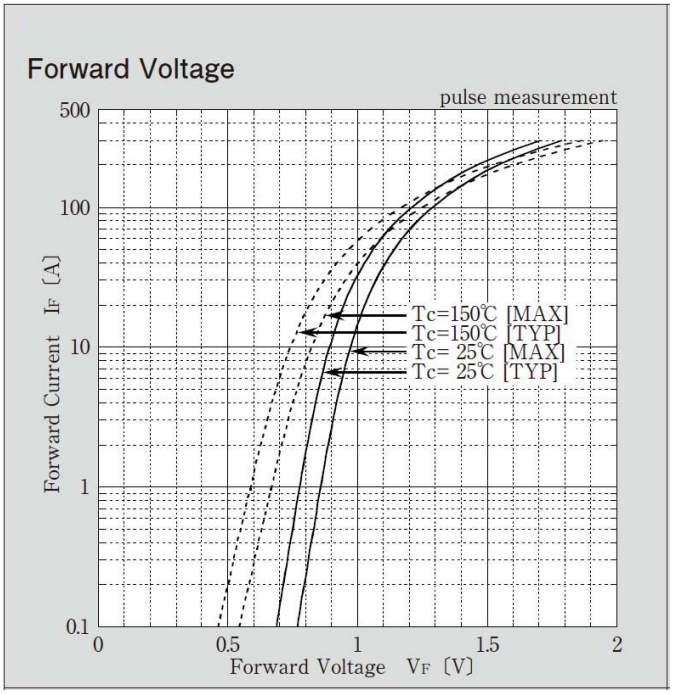
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=25A, Pulse measurement, per diode			1.05	V
Reverse current	I_R	VR=800V, Pulse measurement, per diode			10	μA
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			0.2	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, Without heatsink			11	°C/W

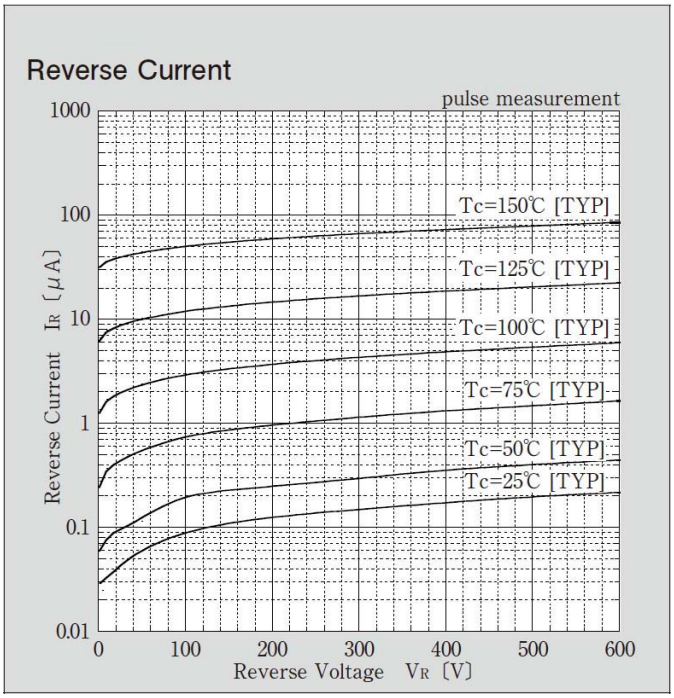
※ ：See the original Specifications

CHARACTERISTIC DIAGRAMS

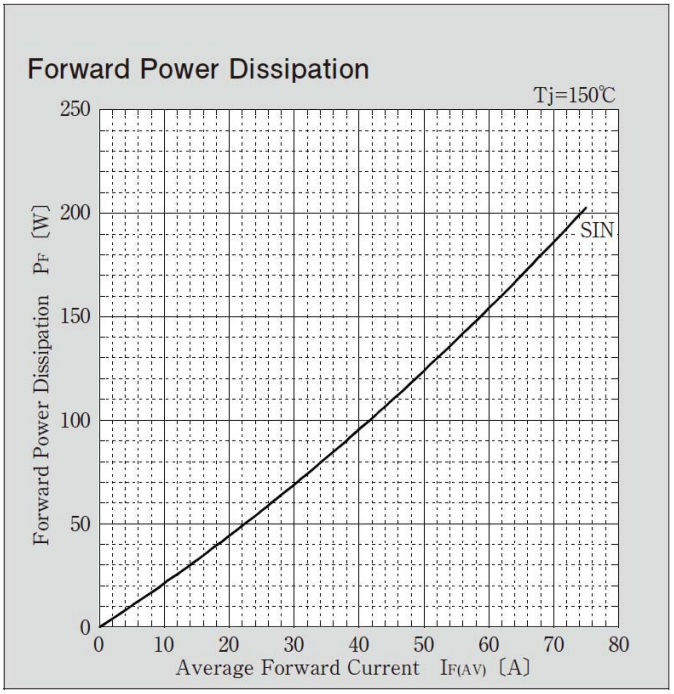
Forward Voltage



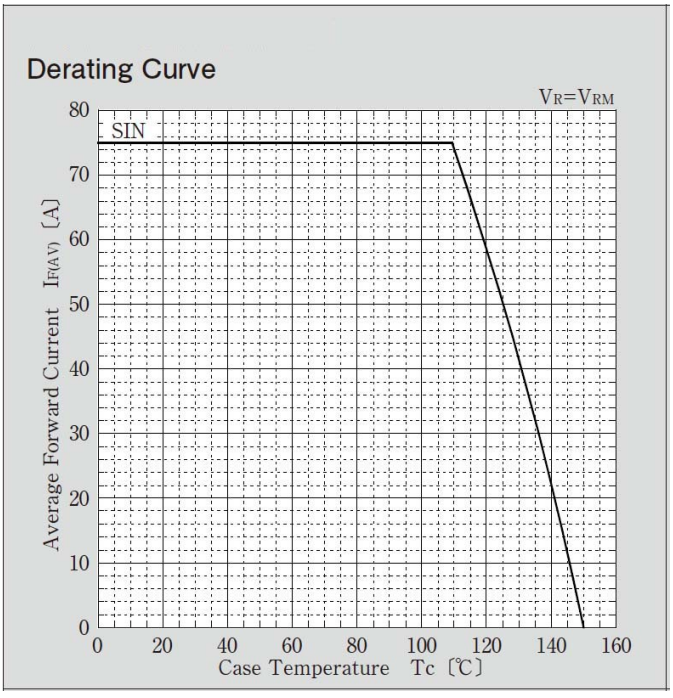
Reverse Current



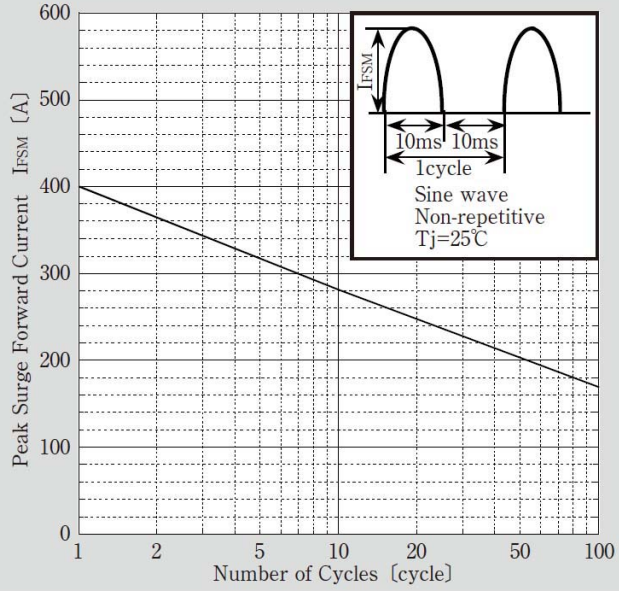
Forward Power Dissipation



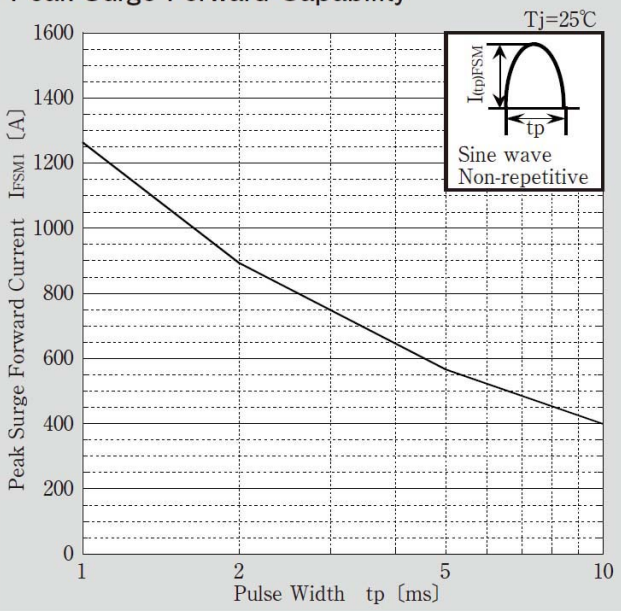
Derating Curve



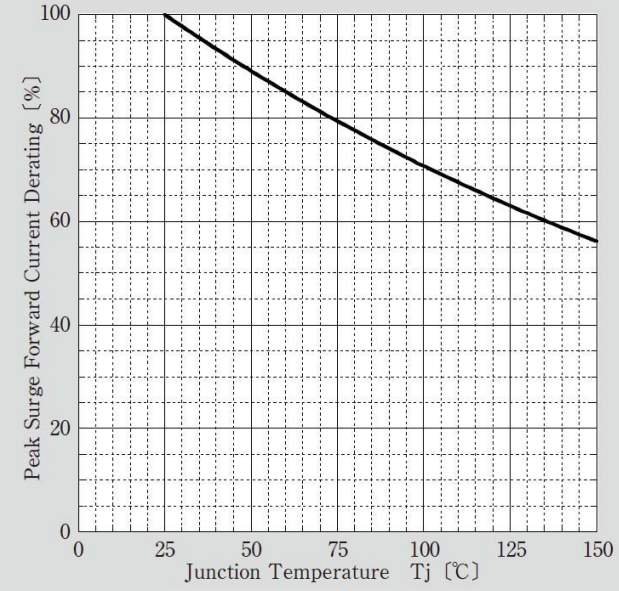
Peak Surge Forward Capability



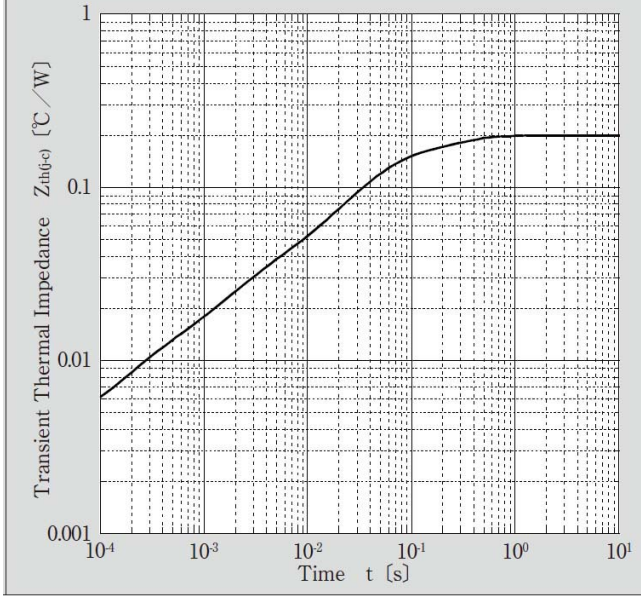
Peak Surge Forward Capability



Peak Surge Forward Current Derating vs Junction Temperature



Transient Thermal Impedance



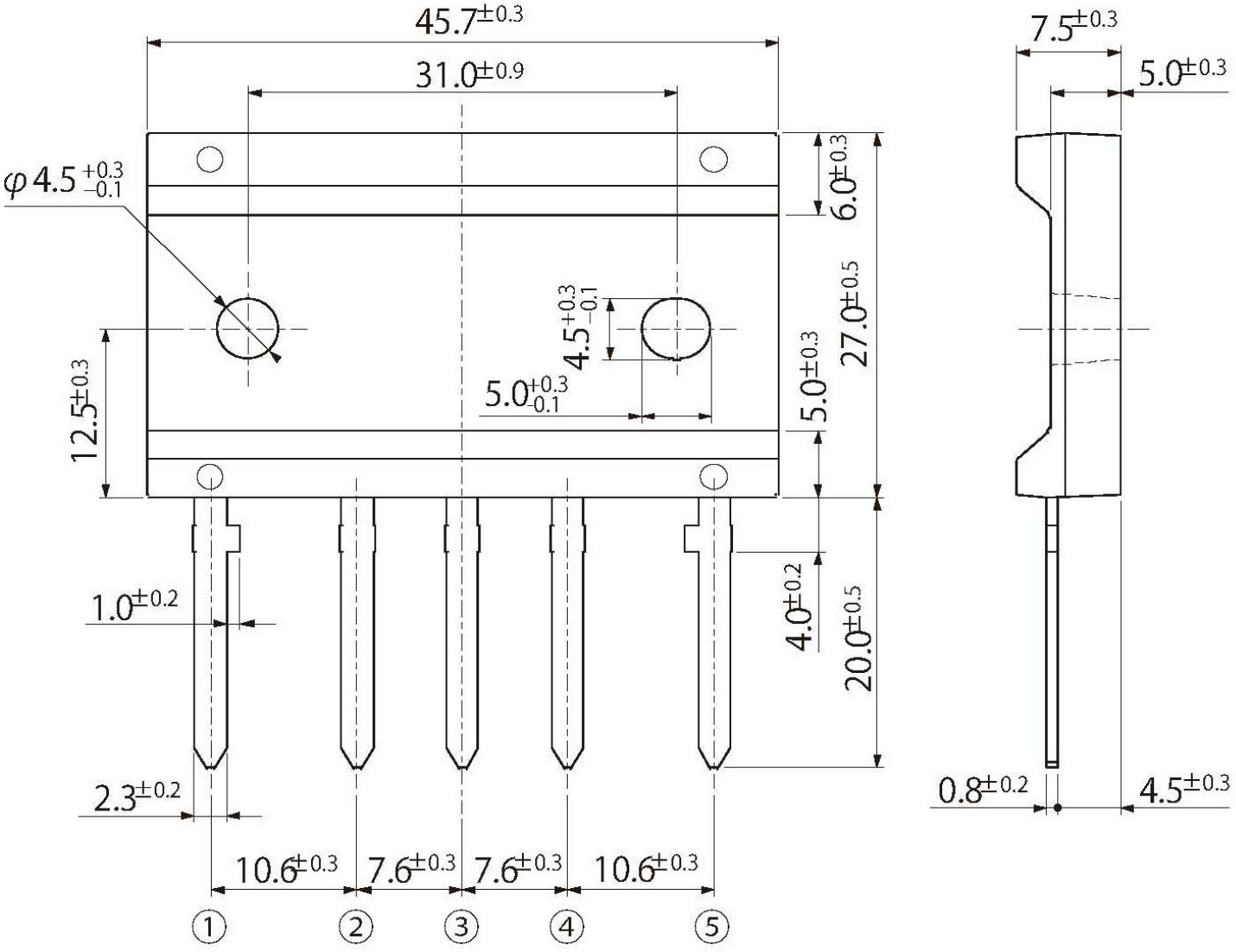
Outline Dimensions

unit:mm

scale: 2/1

D9

JEDEC Code	–
JEITA Code	–
House Name	JF



Notes

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