ShinDengen

D45JCT120V

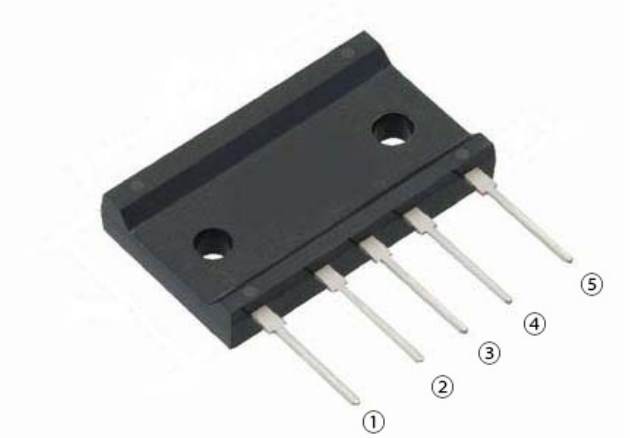
Bridge Diodes
1200V, 45A

Feature

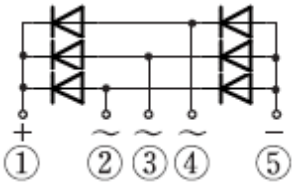
- Compact SIP
- UL E142422
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): JC(5pin)



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-40 to 150	°C
Junction temperature	Tj		-40 to 150	°C
Repetitive peak reverse voltage	V_{RRM}		1200	V
Average forward current	I_F(AV)	50Hz sine wave, Resistance load, With heatsink, Tc=99°C	45	A
Average forward current	I_F(AV)	50Hz sine wave, Resistance load, Without heatsink, Ta=25°C ※	4.6	A
Surge forward current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, per diode, Tj=25°C	450	A
Surge forward current	I_{FSM1}	tp=1ms, sine wave, Non-repetitive, peak value, per diode, Tj=25°C	1423	A
Current squared time	I^2t	1ms≦t＜10ms, Tj=25°C, per diode	1013	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

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

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=15A, Pulse measurement, per diode			1.05	V
Reverse current	I_R	VR=1200V, Pulse measurement, per diode			10	μA
Thermal resistance	Rth(j-c)	Junction to case ,With heatsink			0.5	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate ※			16	°C/W

※ ：See the original Specifications

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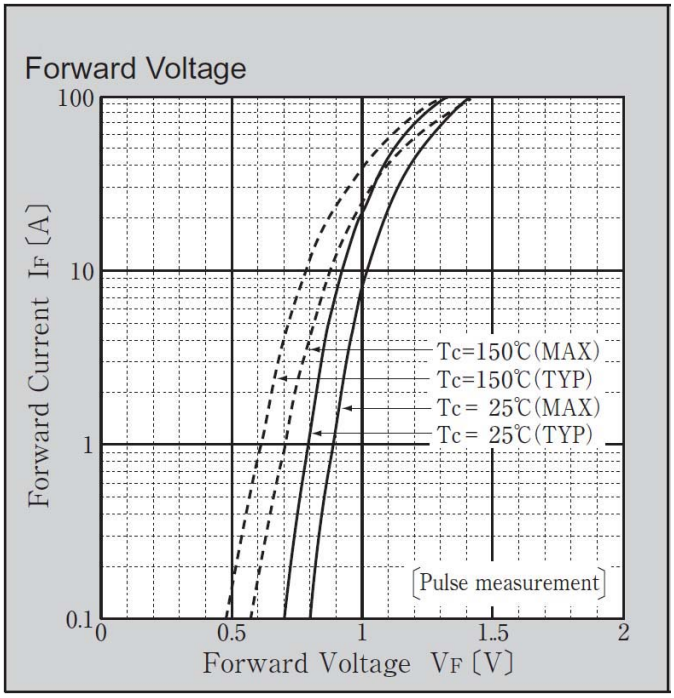
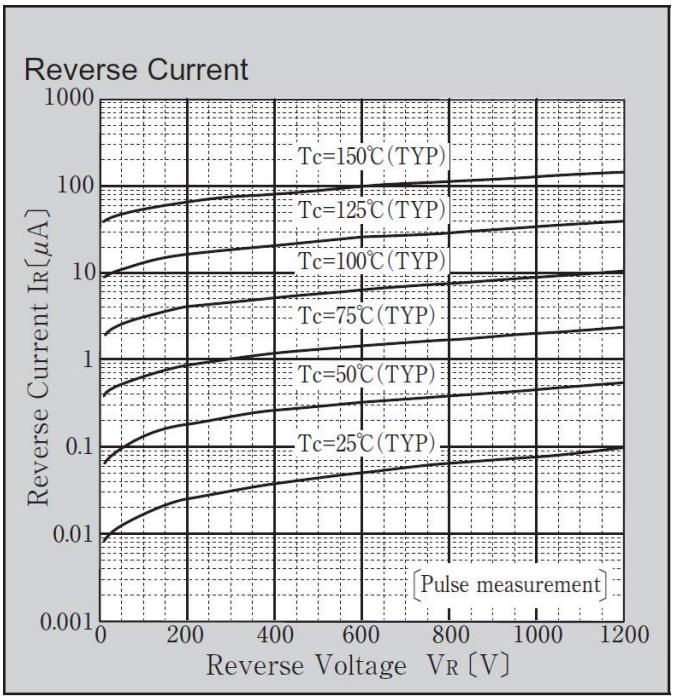
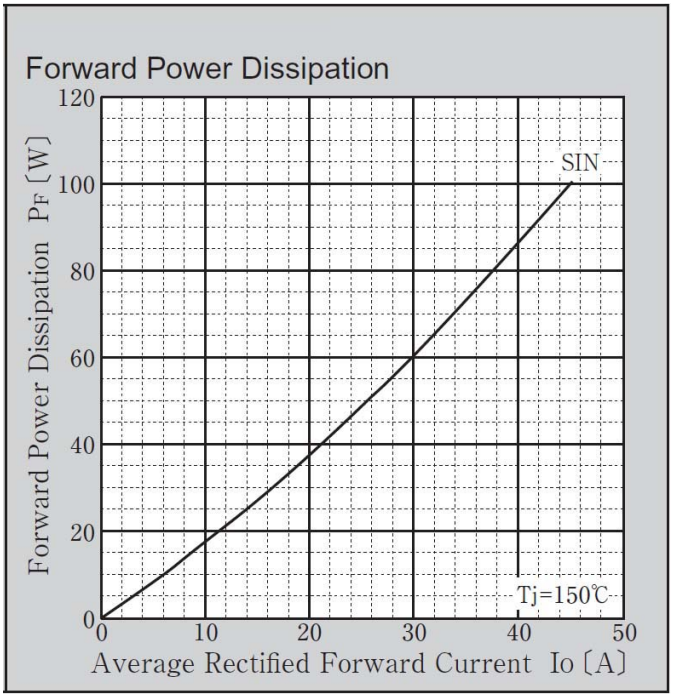
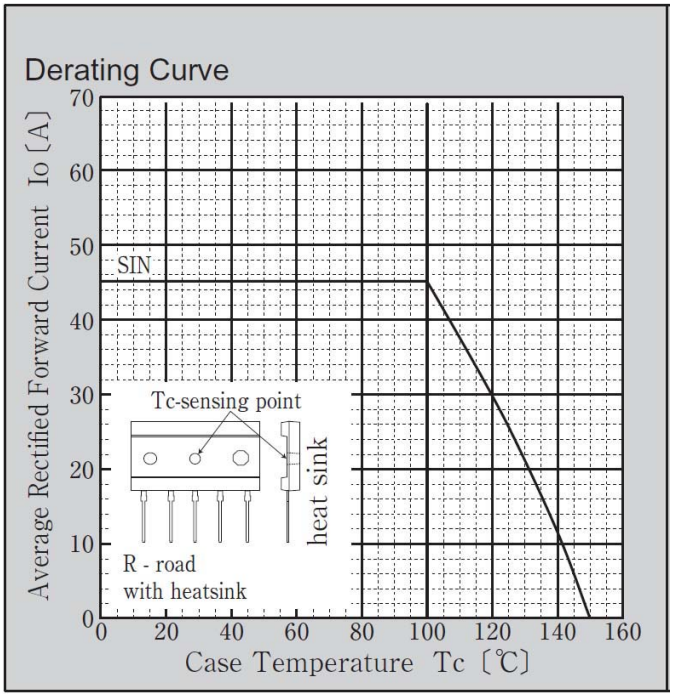
CHARACTERISTIC DIAGRAMS









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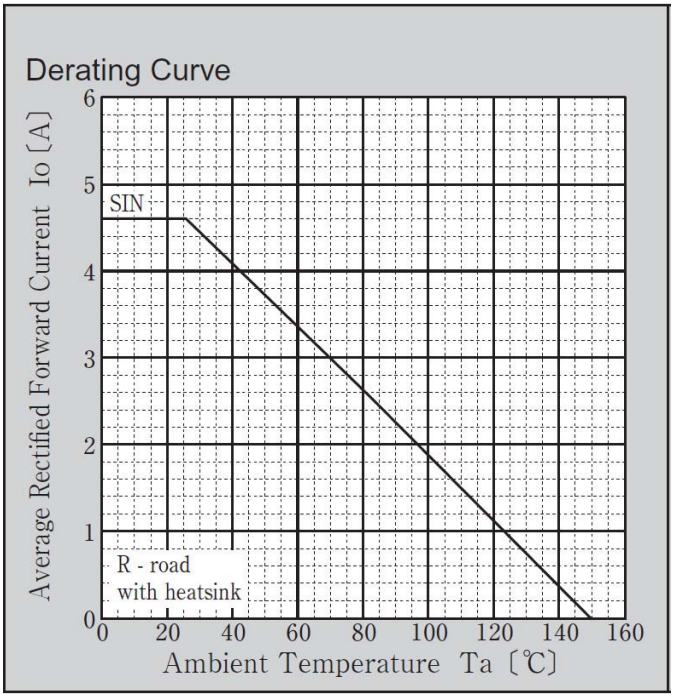

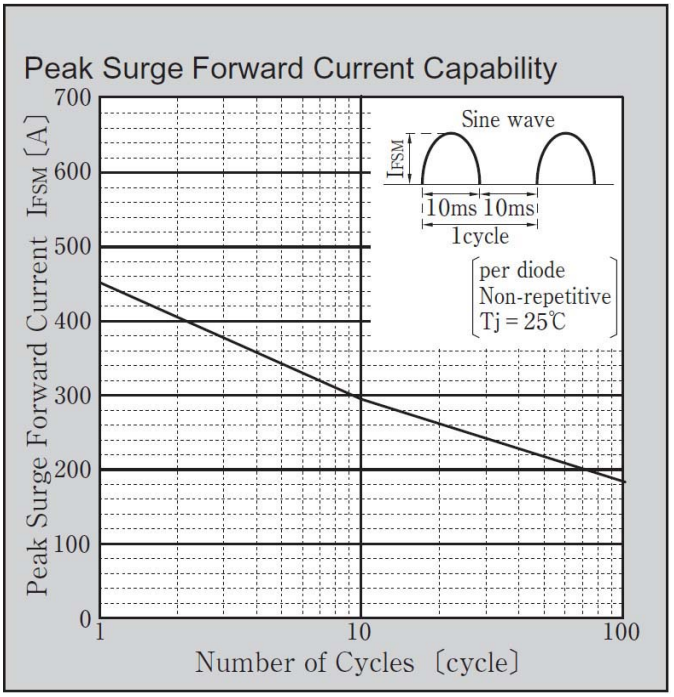

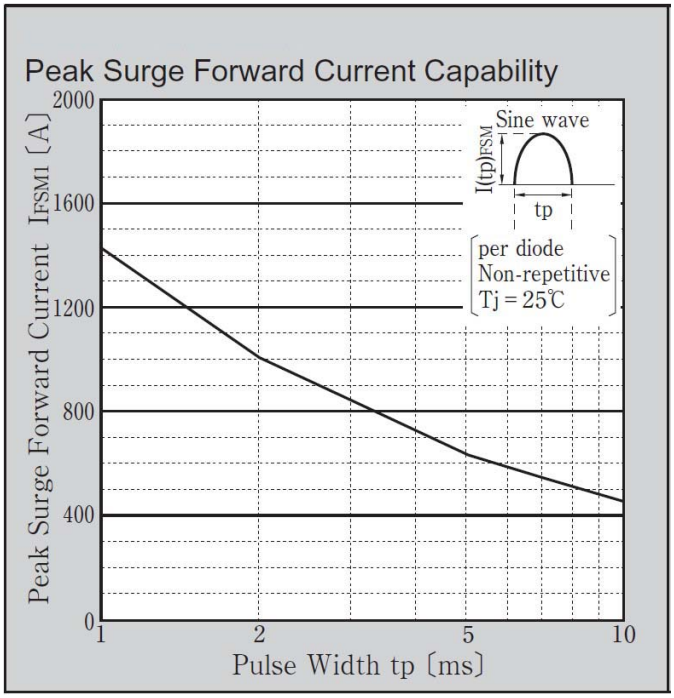

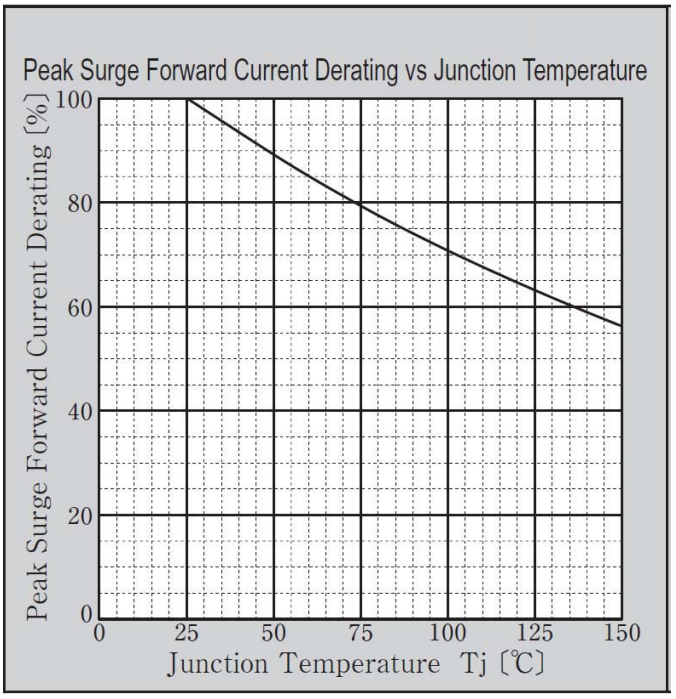

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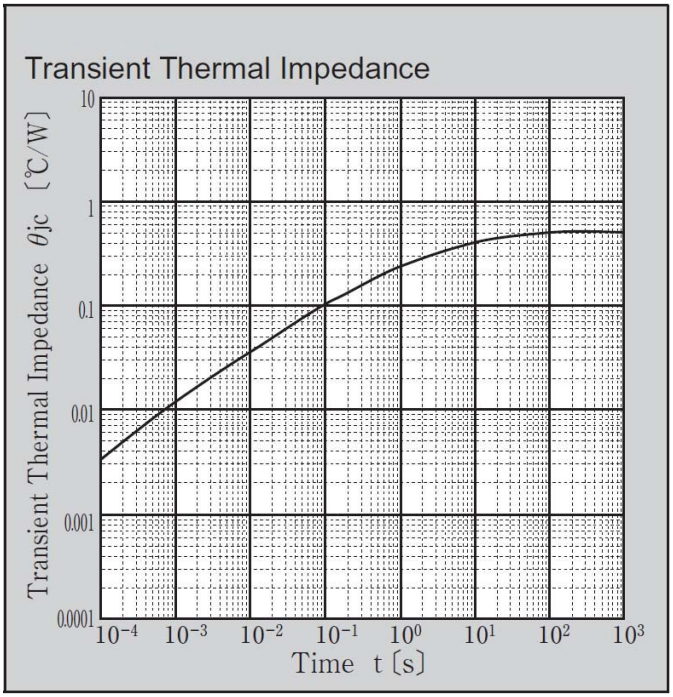

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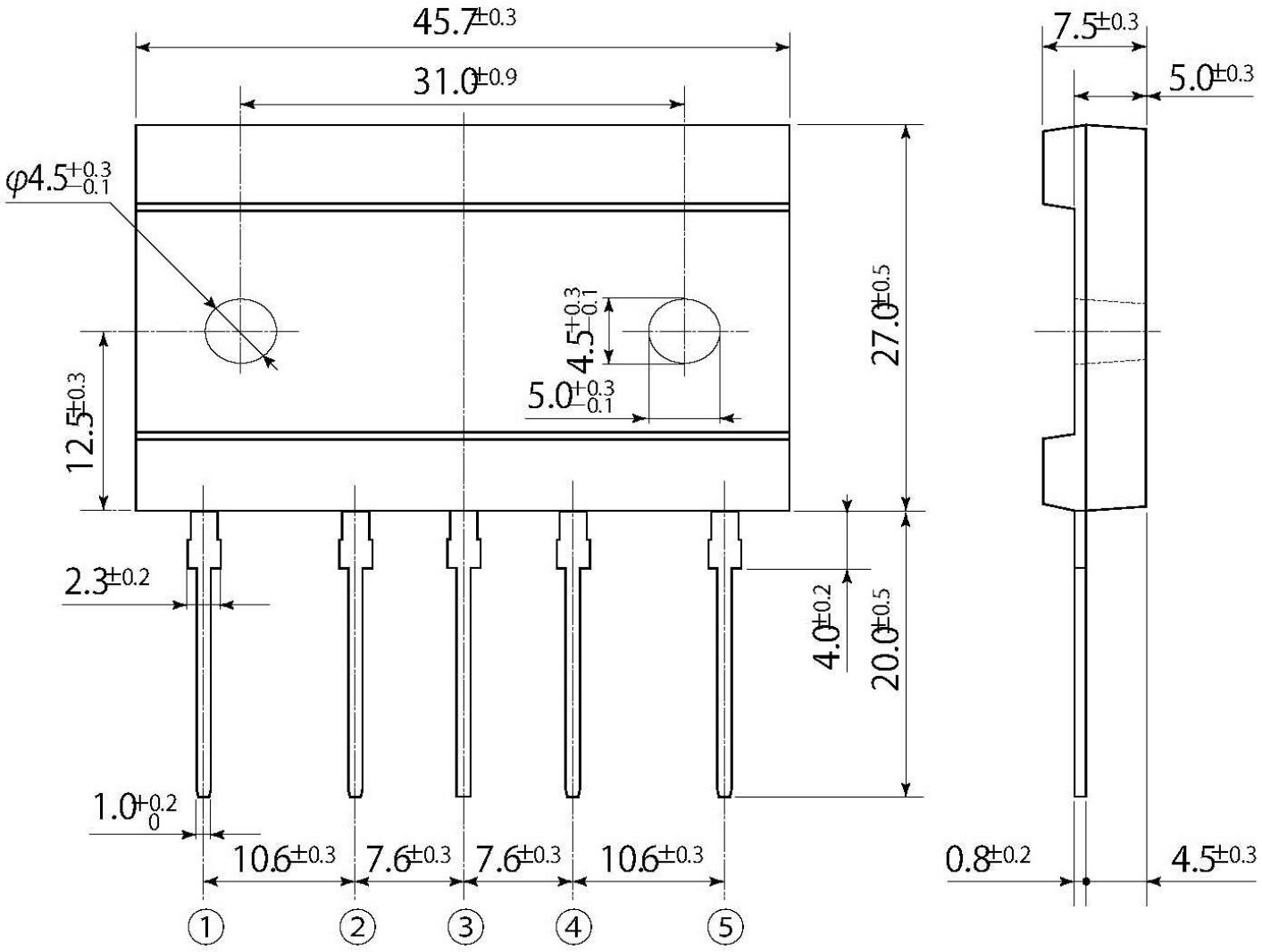
Outline Dimensions

unit:mm

scale: 2/1

D8

JEDEC Code	–
JEITA Code	–
House Name	TSB(5pin),JC(5pin)



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