

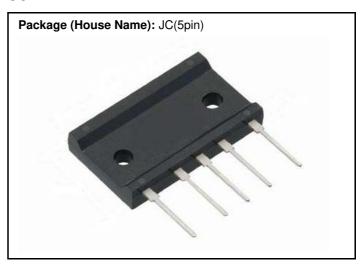
D45JCT120V

Bridge Diodes 1200V, 45A

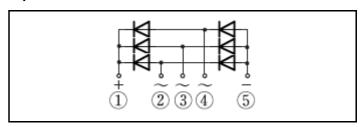
Feature

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

OUTLINE



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	А	
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Without heatsink, Ta=25°C *	4.6	А	
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, per diode, Tj=25°C	450	А	
Surge forward current	I _{FSM1}	tp=1ms, sine wave, Non-repetitive, peak value, per diode, Tj=25°C	1423	А	
Current squared time	ľt	1ms≦t<10ms, Tj=25°C, per diode	1013	A ² s	
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		

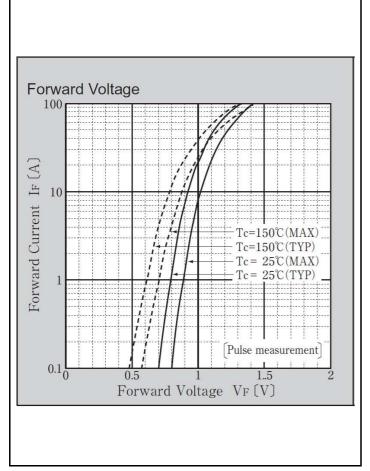
^{* :} See the original Specifications

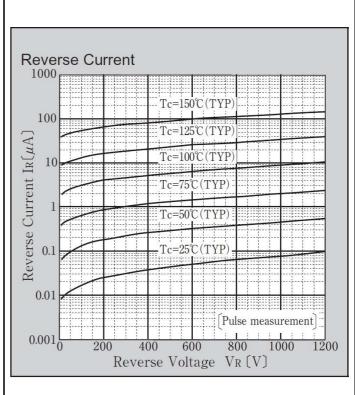
Electrical Characteristics (unless otherwise specified : Tc=25°C)

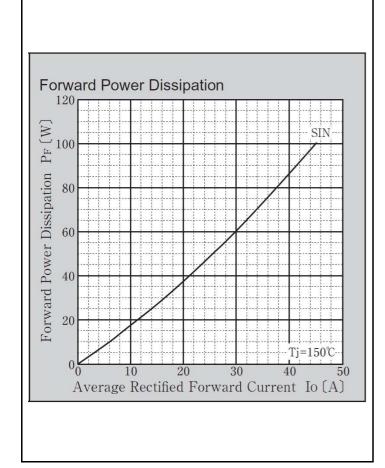
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	IF=15A, Pulse measurement, per diode			1.05	V
Reverse current	I _R	VR=1200V, Pulse measurement, per diode			10	μΑ
Thermal resistance	Rth(j-c)	Junction to case ,With heatsink			0.5	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient,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

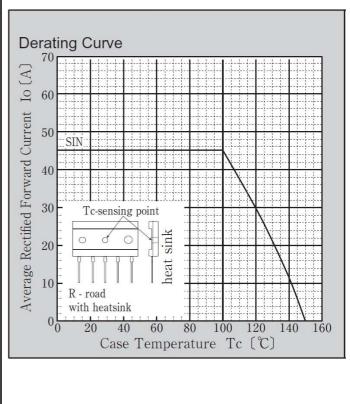
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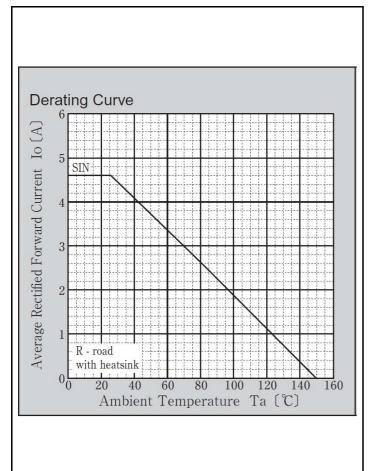
CHARACTERISTIC DIAGRAMS

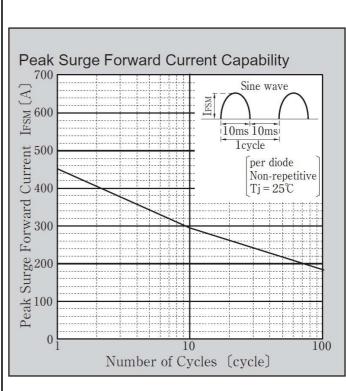


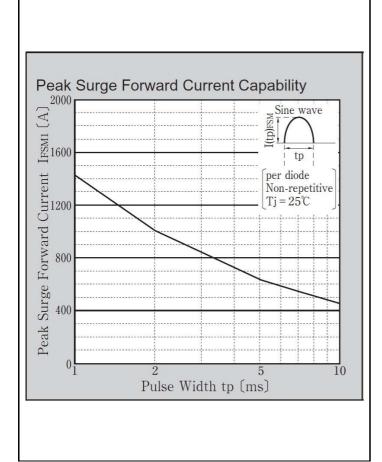


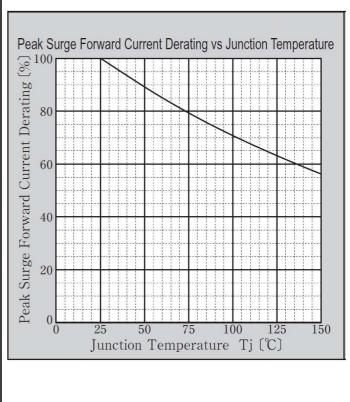


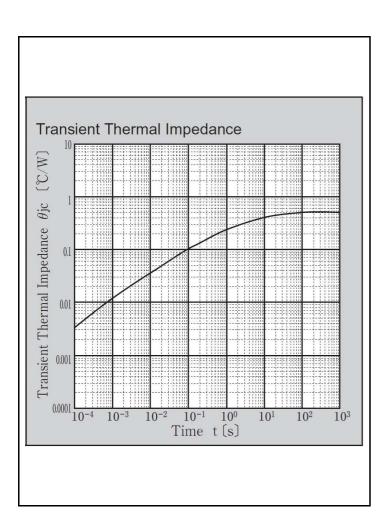








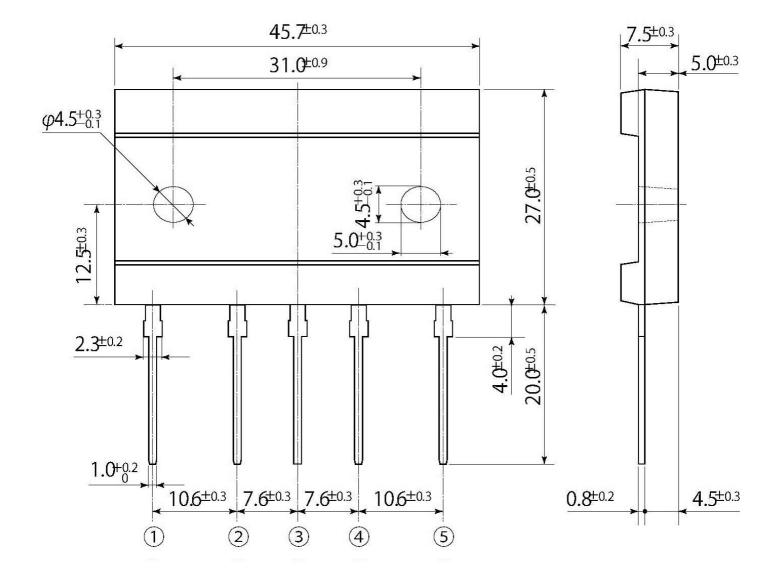




scale: 2/1

D8

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



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