

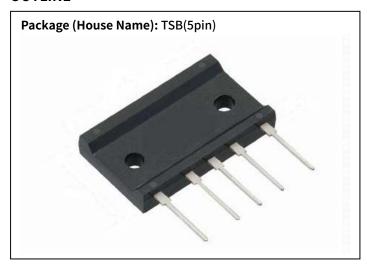
D45XT80

Bridge Diodes 800V, 45A

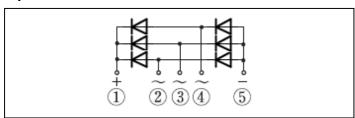
Feature

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

OUTLINE



Equivalent circuit



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

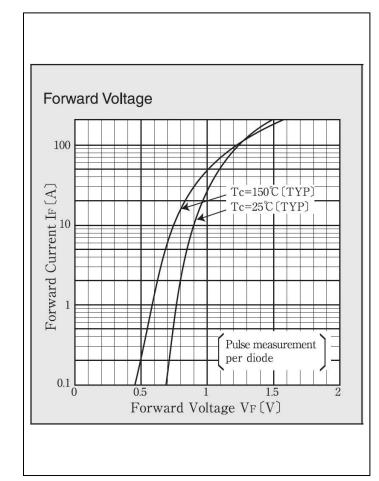
Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-40 to 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	V _{RRM}		800	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, With heatsink, Tc=101°C	45	А
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Without heatsink, Ta=27°C	4.5	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, per diode, Tj=25°C	400	А
Current squared time	l²t	1ms≦t<10ms, per diode	800	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

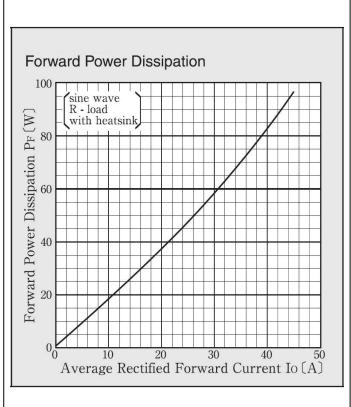
^{* :} See the original Specifications

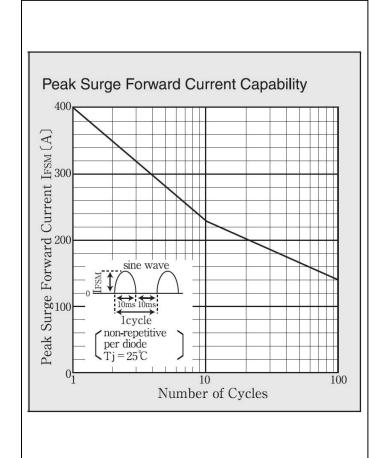
Electrical Characteristics (unless otherwise specified : Tc=25°C)

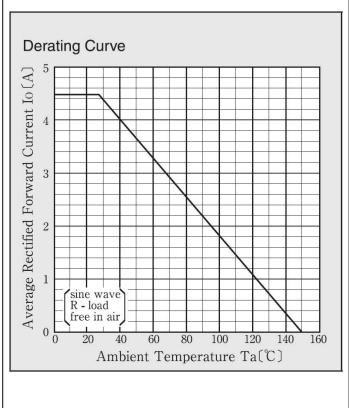
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Offic
Forward voltage	V_{F}	IF=15A, Pulse measurement, per diode			1.05	V
Reverse current	I _R	VR=800V, Pulse measurement, per diode			10	μΑ
Thermal resistance	Rth(j-c)	Junction to case			0.5	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient			16	°C/W

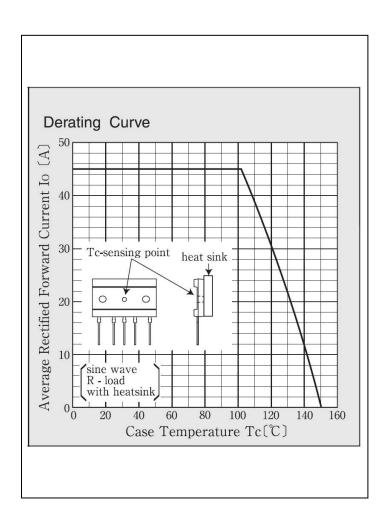
CHARACTERISTIC DIAGRAMS









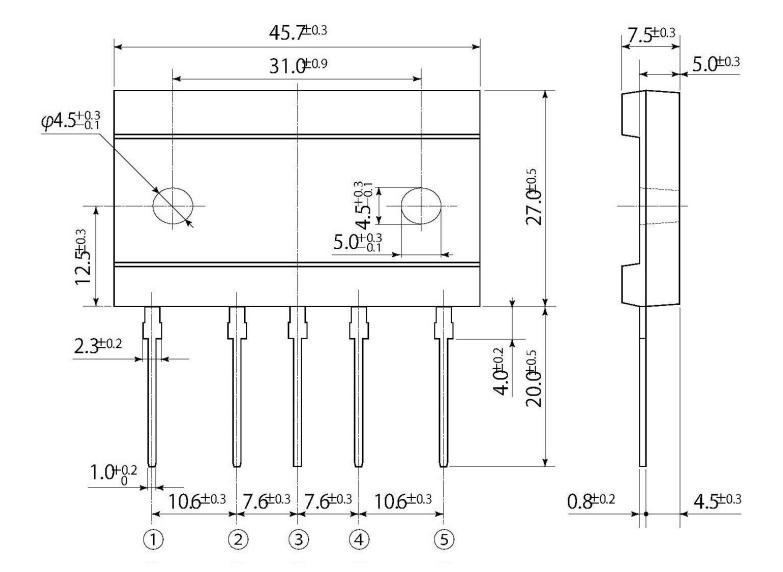


unit:mm

scale: 2/1

D8

JEDEC Code	_		
JEITA Code	1		
House Name	TSB(5pin),JC(5pin)		



Notes

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[Special applications]

Transportation equipment (vehicles, ships, etc.), trunk-line communication equipment, traffic signal control systems, antidisaster/crime systems, safety equipment, medical equipment, etc.

[Specific applications]

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