

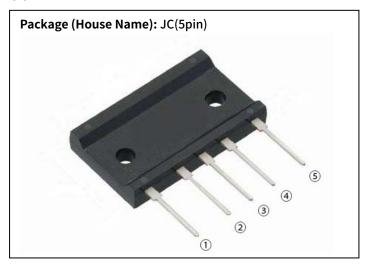
# **D45JCT160V**

# Bridge Diodes 1600V, 45A

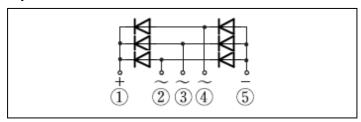
### **Feature**

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

## **OUTLINE**



# **Equivalent circuit**



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

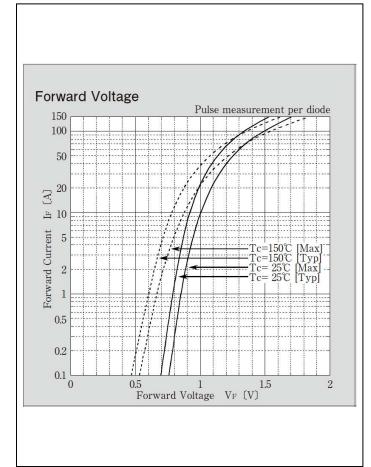
Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	V <sub>RRM</sub>		1600	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, With heatsink, Tc=97°C	45	А
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, Without heatsink, Ta=25°C	4.6	Α
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, per diode, Tj=25°C	450	Α
Surge forward current	I <sub>FSM1</sub>	tp=1ms, sine wave, Non-repetitive, peak value, per diode, Tj=25°C	1423	А
Current squared time	l <sup>2</sup> t	1ms≦t<10ms, Tj=25°C, per diode	1013	A <sup>2</sup> s
Dielectric strength	Vdis	Terminals to case backside, AC 1 minute Cut-off current 0.5mA, 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

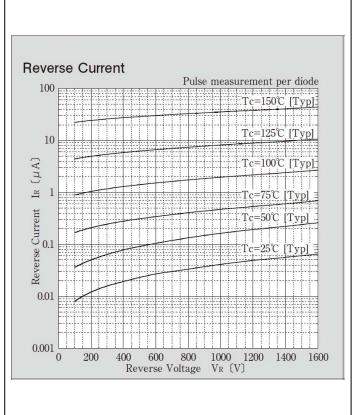
**<sup>※</sup>** ∶See the original Specifications

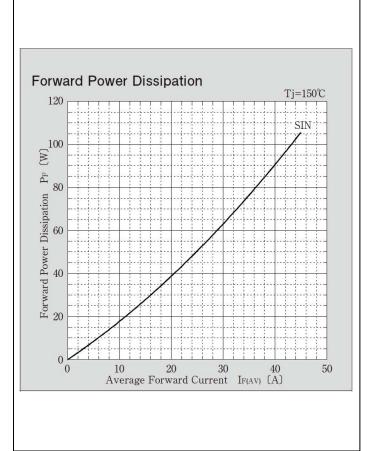
# **Electrical Characteristics** (unless otherwise specified : Tc=25°C)

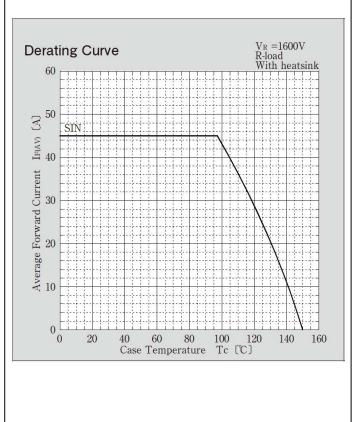
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Offic
Forward voltage	V <sub>F</sub>	IF=15A, Pulse measurement, per diode			1.05	V
Reverse current	I <sub>R</sub>	VR=1600V, Pulse measurement, per diode			10	μΑ
Thermal resistance	Rth(j-c)	Junction to case ,With heatsink			0.5	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, Without heatsink			16	°C/W

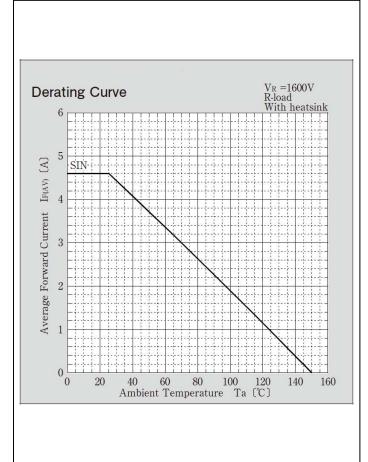
## **CHARACTERISTIC DIAGRAMS**

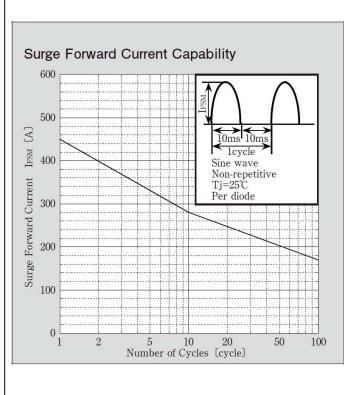


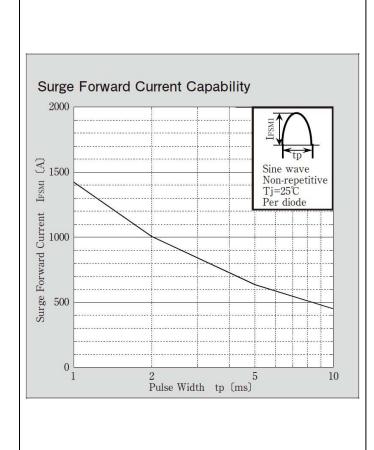


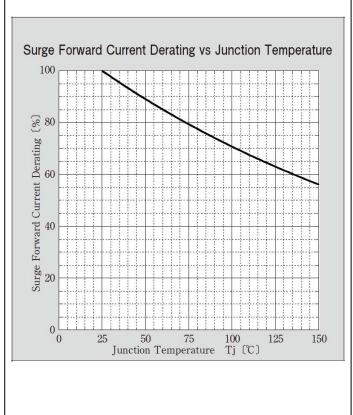


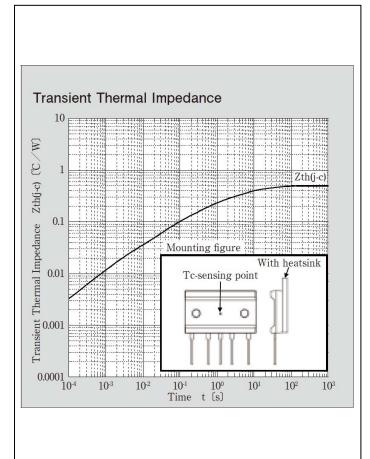


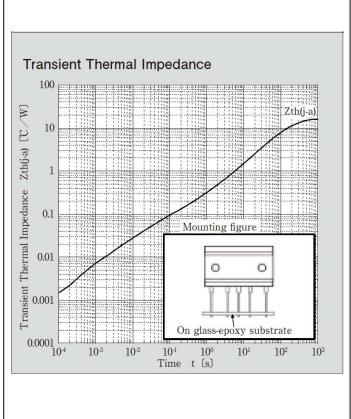










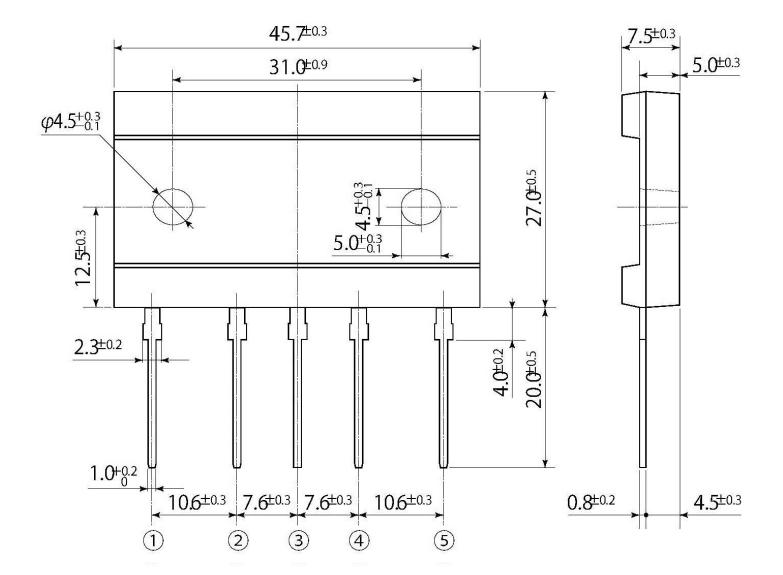


## unit:mm

scale: 2/1

D8

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



#### **Notes**

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