

D50JCB80V

Bridge Diodes

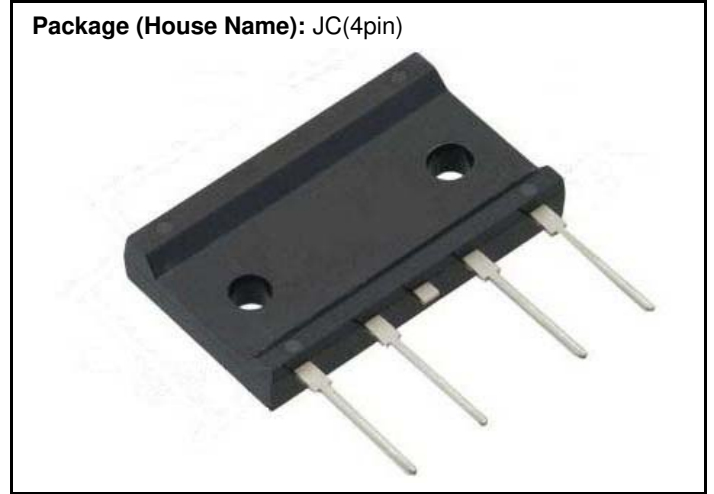
800V, 50A

Feature

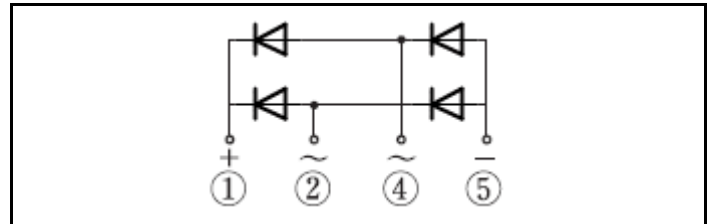
- Compact SIP
- UL E142422
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): JC(4pin)



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T _{stg}		-55 to 150	°C
Junction temperature	T _j		150	°C
Repetitive peak reverse voltage	V _{RRM}		800	V
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, With heatsink, T _c =94°C	50	A
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, Without heatsink, T _a =25°C	4.6	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25°C	600	A
Surge forward current	I _{FSM1}	t _p =1ms, T _j =25°C, Non-repetitive	1897	A
Current squared time	I ² t	1ms ≤ t < 10ms, per diode	1800	A ² s
Dielectric strength	V _{dis}	Terminals to case, AC 1 minute	2	kV
Mounting torque	TOR	(Recommended torque : 1.2N·m)	1.5	N·m

* : See the original Specifications

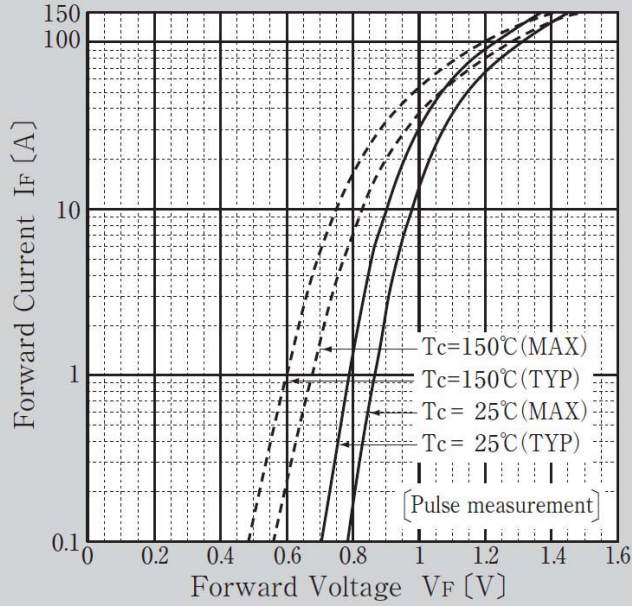
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	I _F =25A, Pulse measurement			1.05	V
Reverse current	I _R	V _R =800V, Pulse measurement			10	μA
Thermal resistance	R _{th(j-c)}	Junction to case, With heatsink			0.5	°C/W
Thermal resistance	R _{th(j-a)}	Junction to ambient			16	°C/W

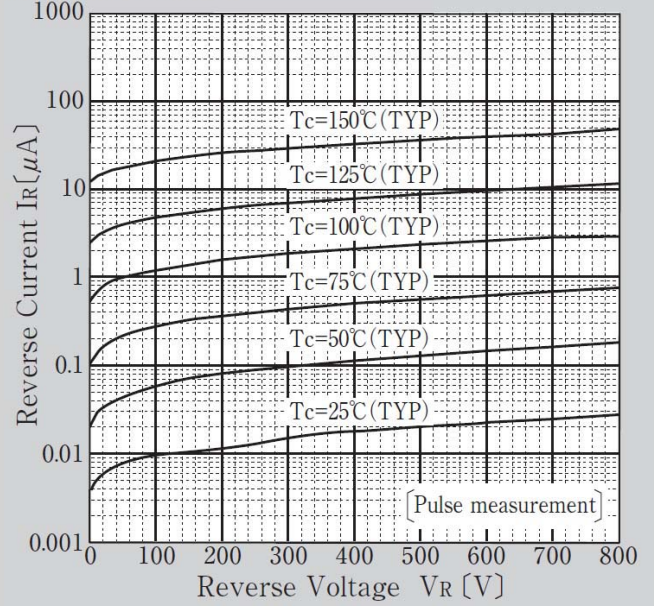
* : See the original Specifications

CHARACTERISTIC DIAGRAMS

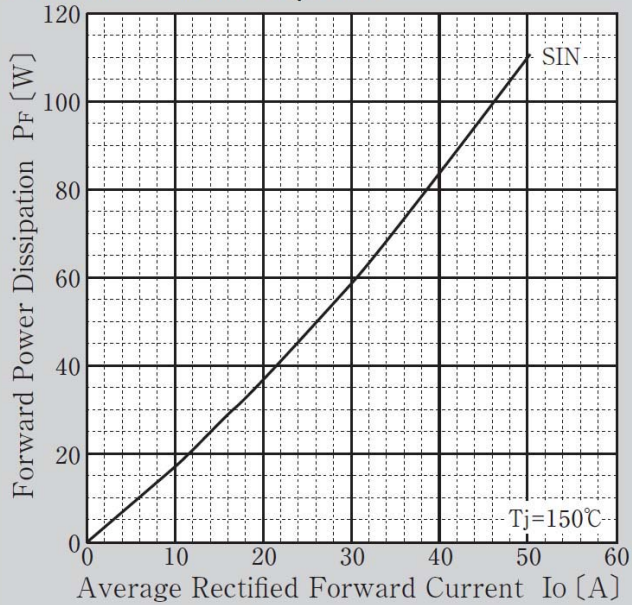
Forward Voltage



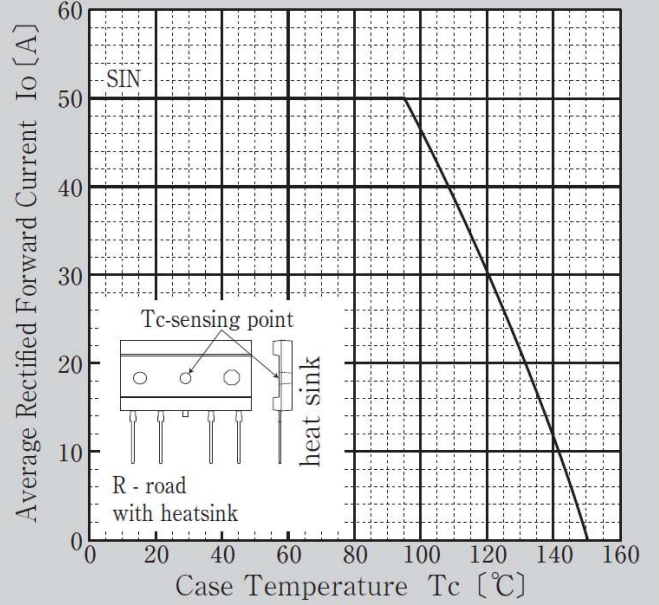
Reverse Current

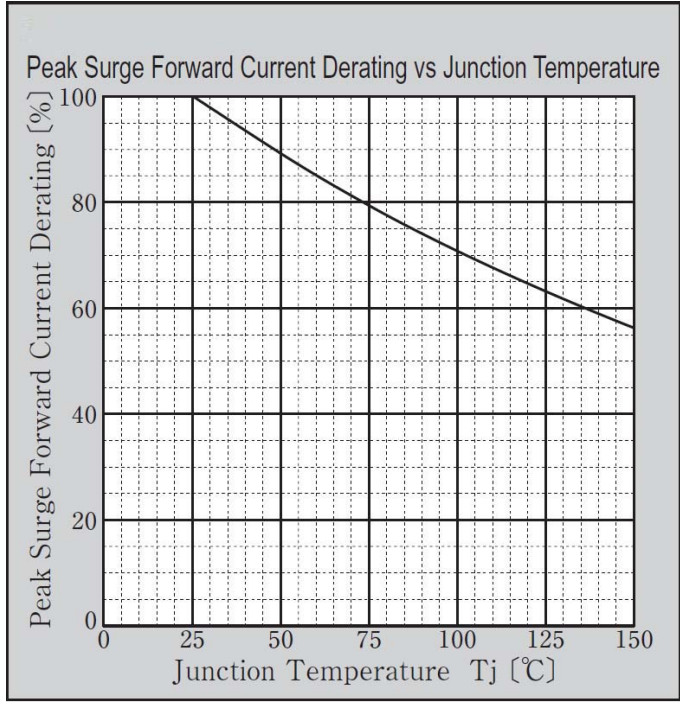
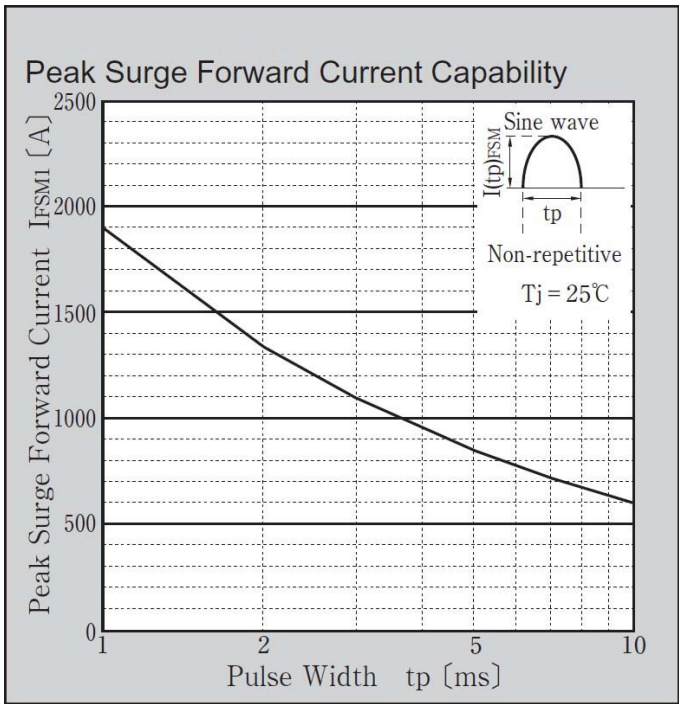
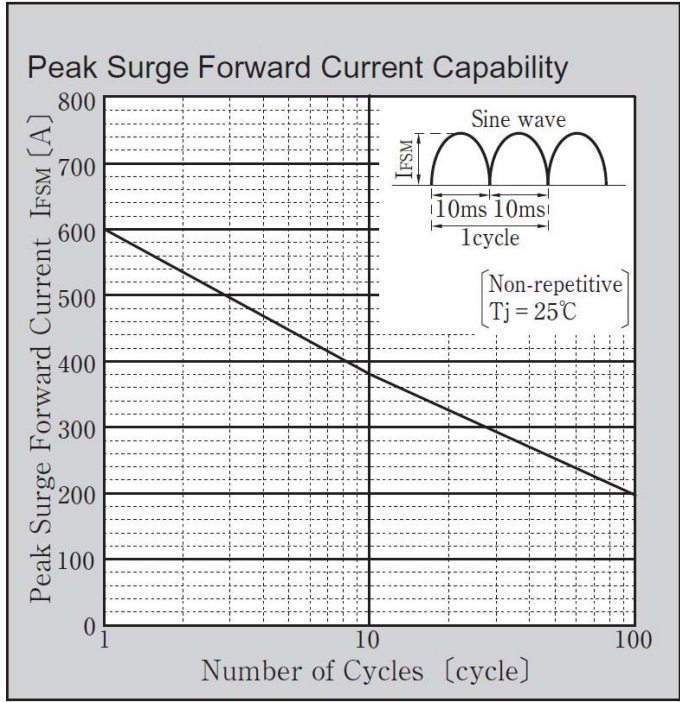
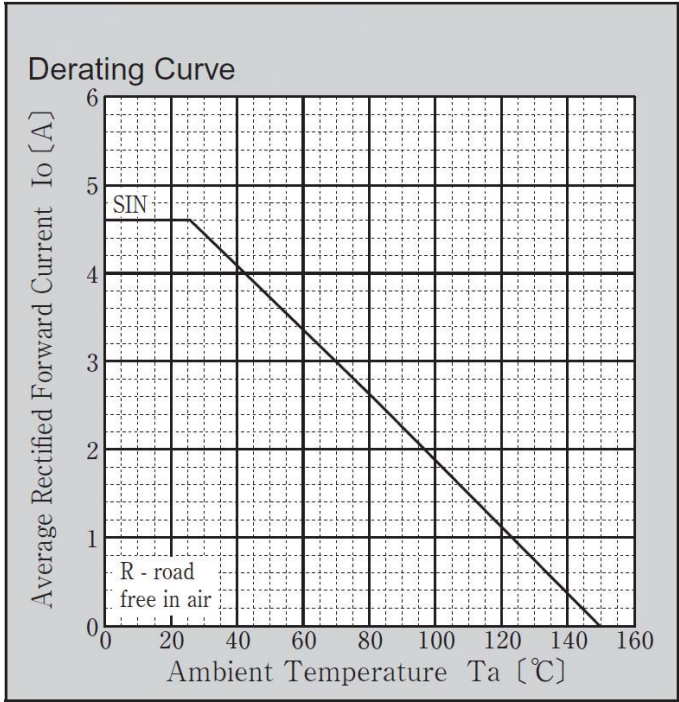


Forward Power Dissipation

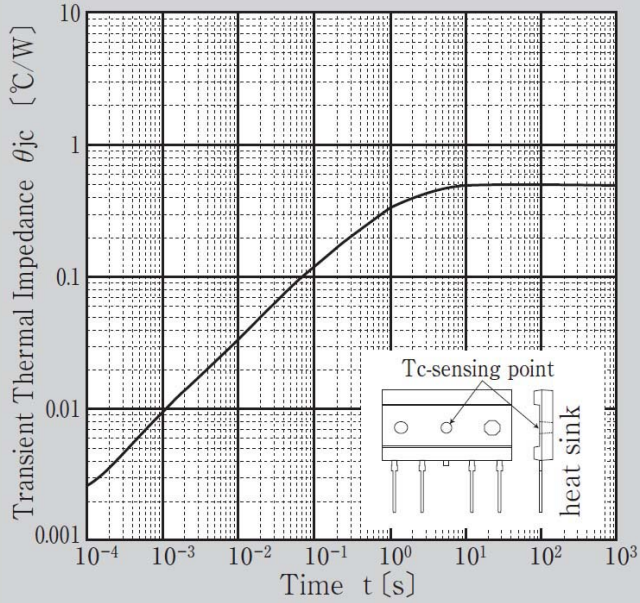


Derating Curve





Transient Thermal Impedance



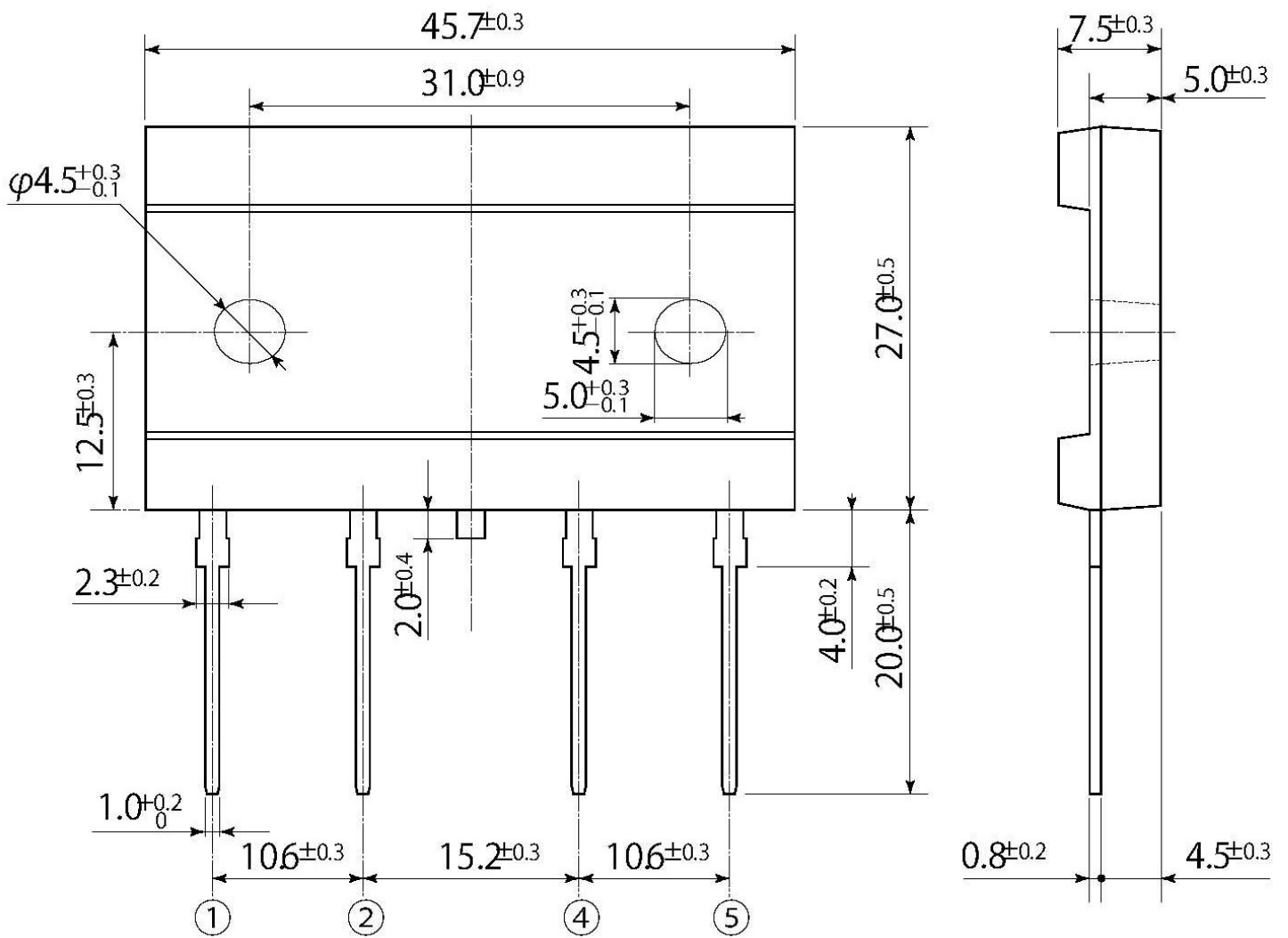
Outline Dimensions

unit:mm

scale: 2/1

D7

JEDEC Code	—
JEITA Code	—
House Name	TSB(4pin),JC(4pin)



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