

D30JCB100K

Bridge Diodes

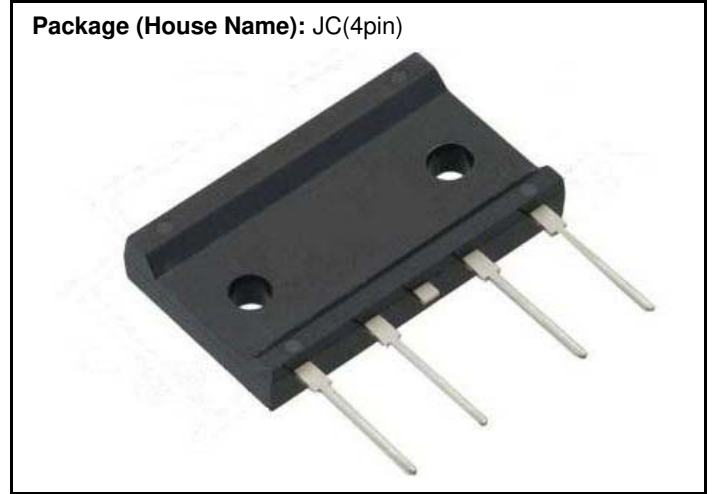
1000V, 30A

Feature

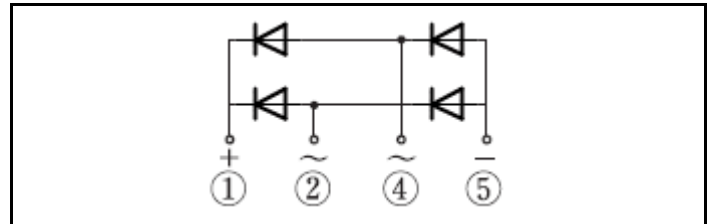
- High Speed FRD
- High Current
- High Voltage
- High Recovery Speed
- UL E142422
- Available for automotive use
- Pb free terminal
- RoHS:Yes

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}		1000	V
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, With heatsink, T _c =90°C	30	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25°C	450	A
Surge forward current	I _{FSM1}	t _p =1ms, T _j =25°C, Non-repetitive	850	A
Dielectric strength	V _{dis}	Terminals to case, AC 1 minute	2.5	kV
Mounting torque	TOR	(Recommended torque : 1.2N·m)	1.5	N·m

※ :See the original Specifications

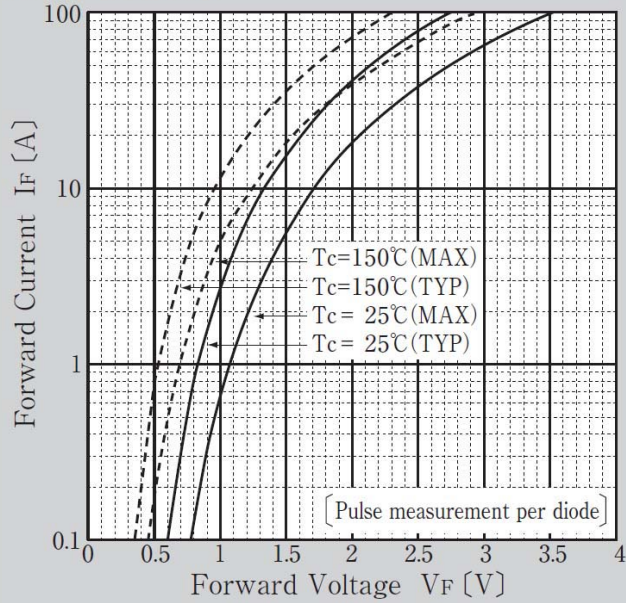
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=15A, Pulse measurement, per diode			1.9	V
Reverse current	I_R	VR=1000V, Pulse measurement, per diode			10	μ A
Total capacitance	Ct	f=1MHz, VR=10V, per diode		210		pF
Reverse recovery time	trr	IF=0.5A, IR=1.0A, 0.25IR, per diode			120	ns
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			0.48	°C/W

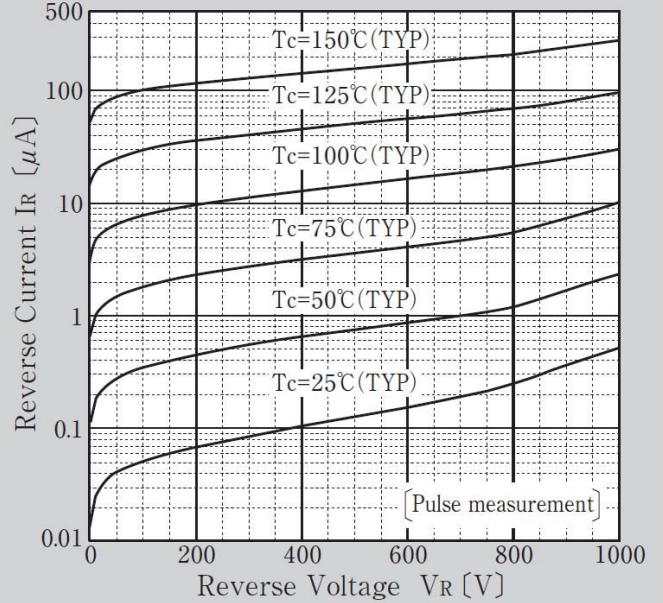
* :See the original Specifications

CHARACTERISTIC DIAGRAMS

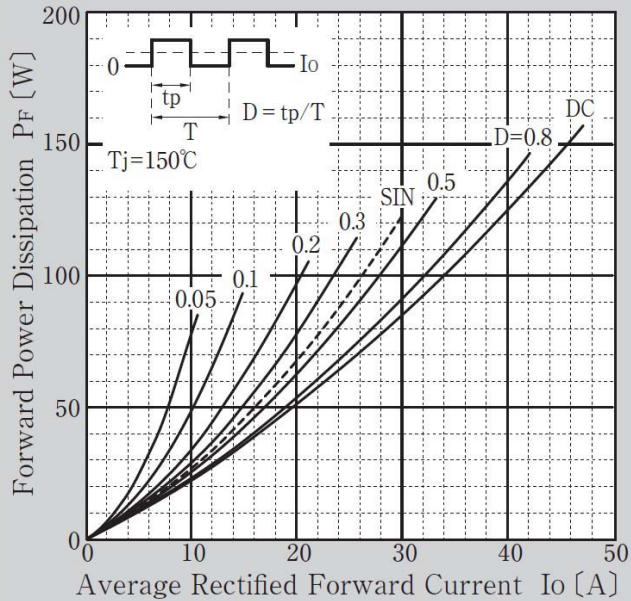
Forward Voltage



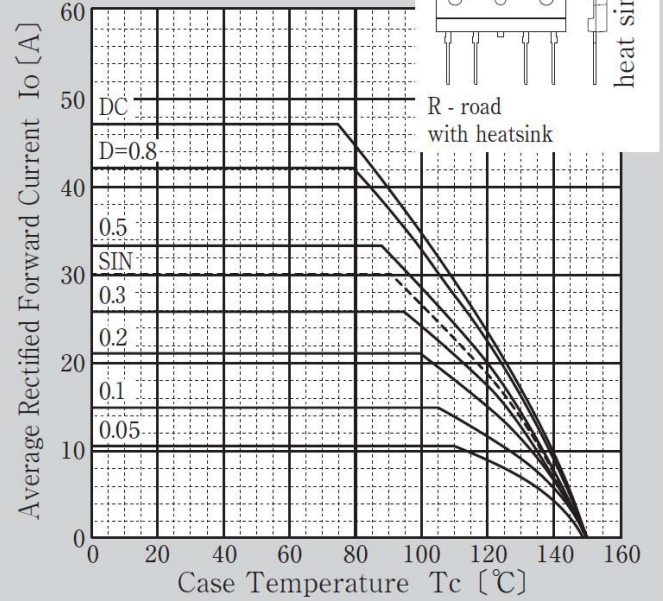
Reverse Current



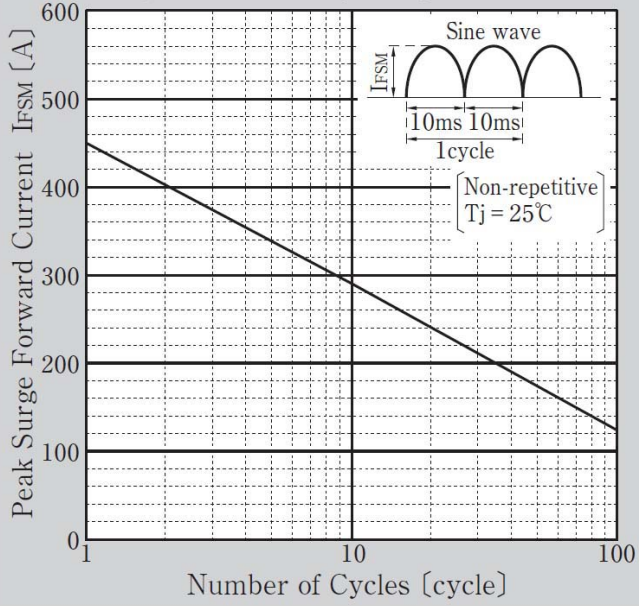
Forward Power Dissipation



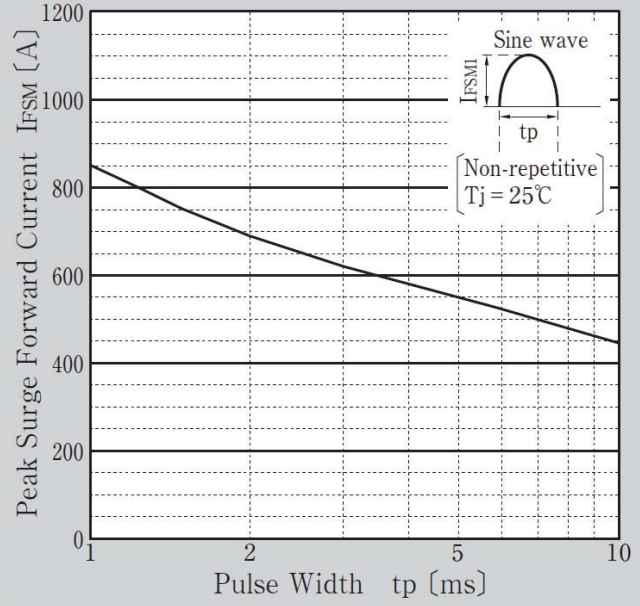
Derating Curve



Peak Surge Forward Capability

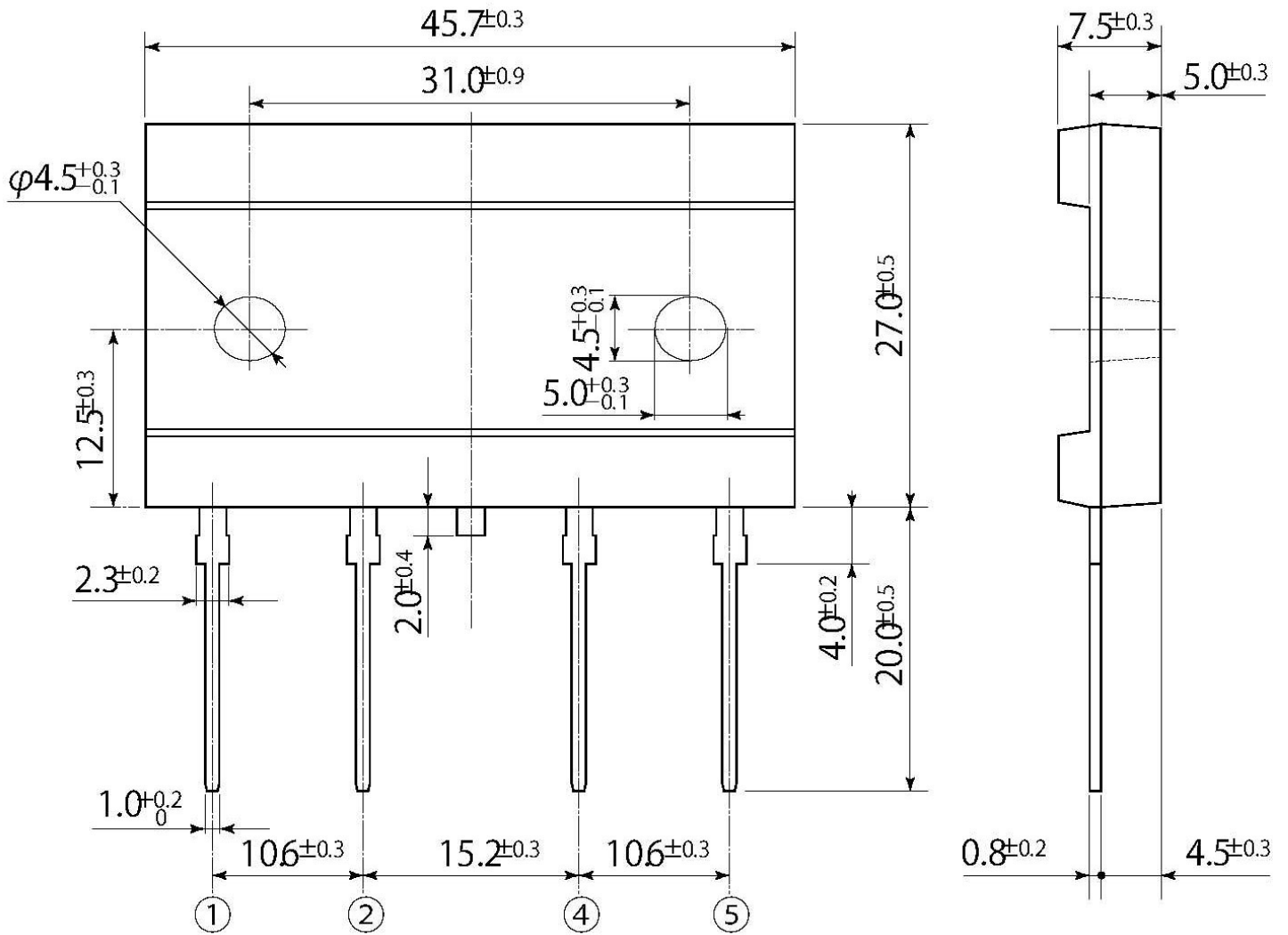


Peak Surge Forward Capability



D7

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



Notes

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