

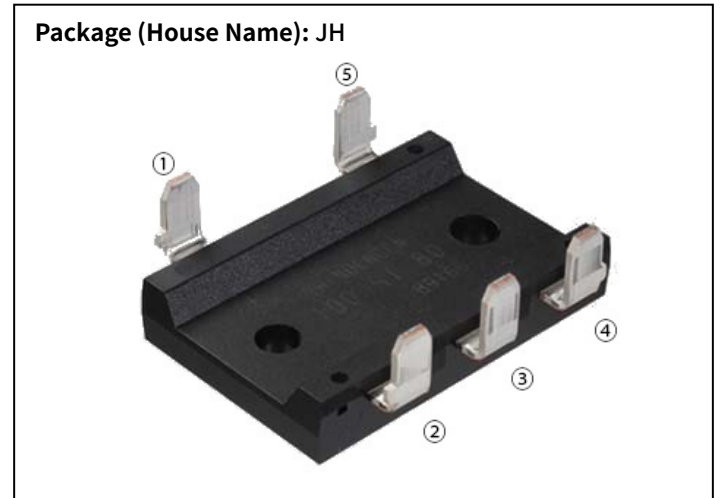
D100JHT80V

Bridge Diodes
800V, 100A

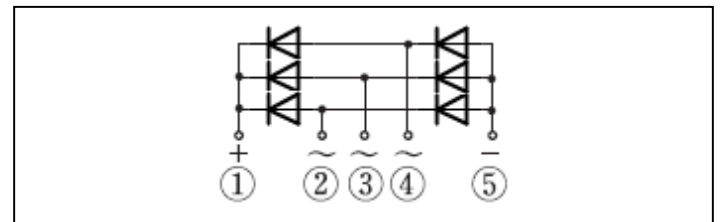
Feature

- DIP
- High Current
- 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 temperature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	V _{RRM}		800	V
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, With heatsink, Tc=99°C	100	A
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=26°C	6.6	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, per diode, Tj=25°C	500	A
Surge forward current	I _{FSM1}	tp=1ms, sine wave, Non-repetitive, peak value, per diode, Tj=25°C	1581	A
Current squared time	I ² t	1ms ≤ tp < 10ms, Tj=25°C, per diode	1250	A ² s
Dielectric strength	Vdis	Terminals to case backside, 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

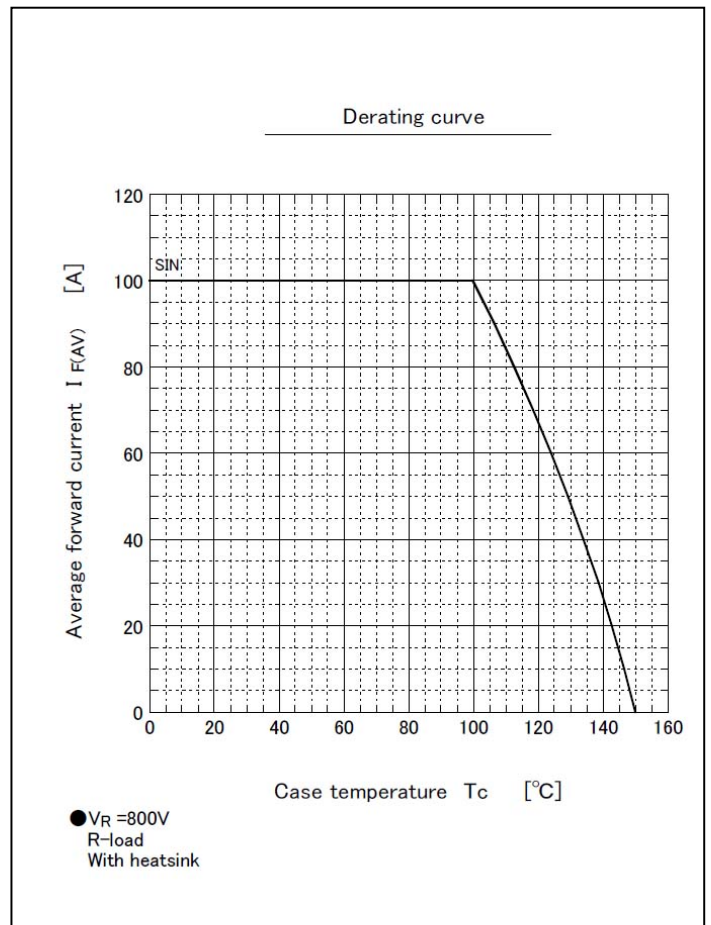
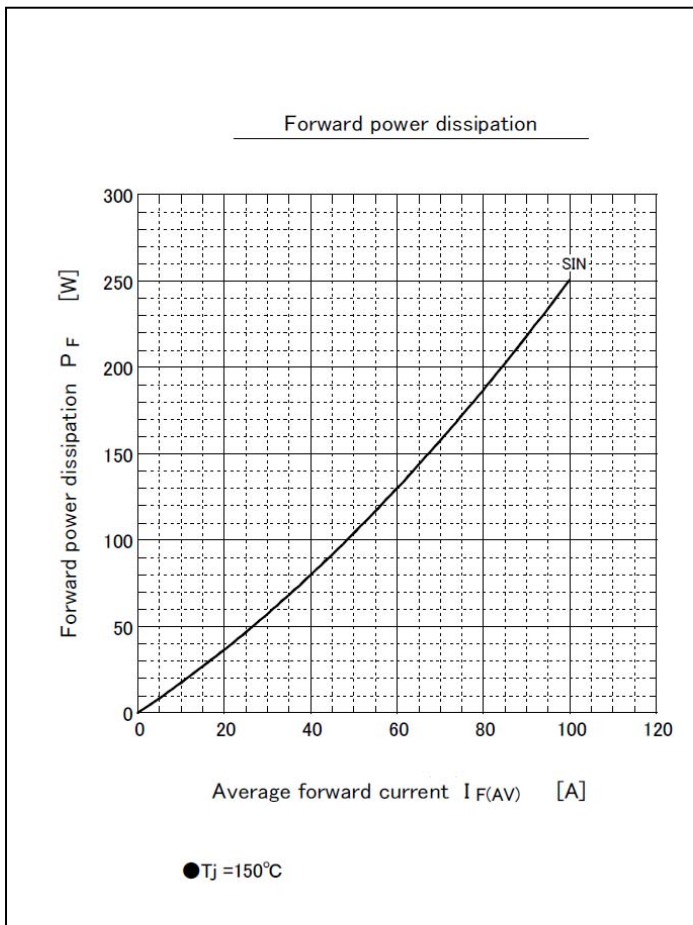
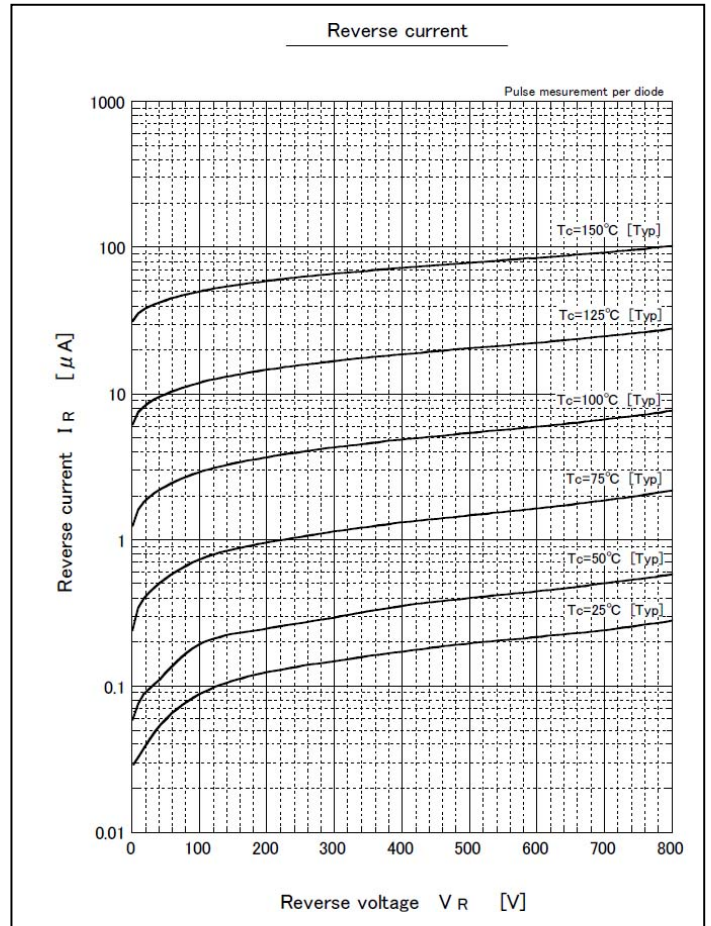
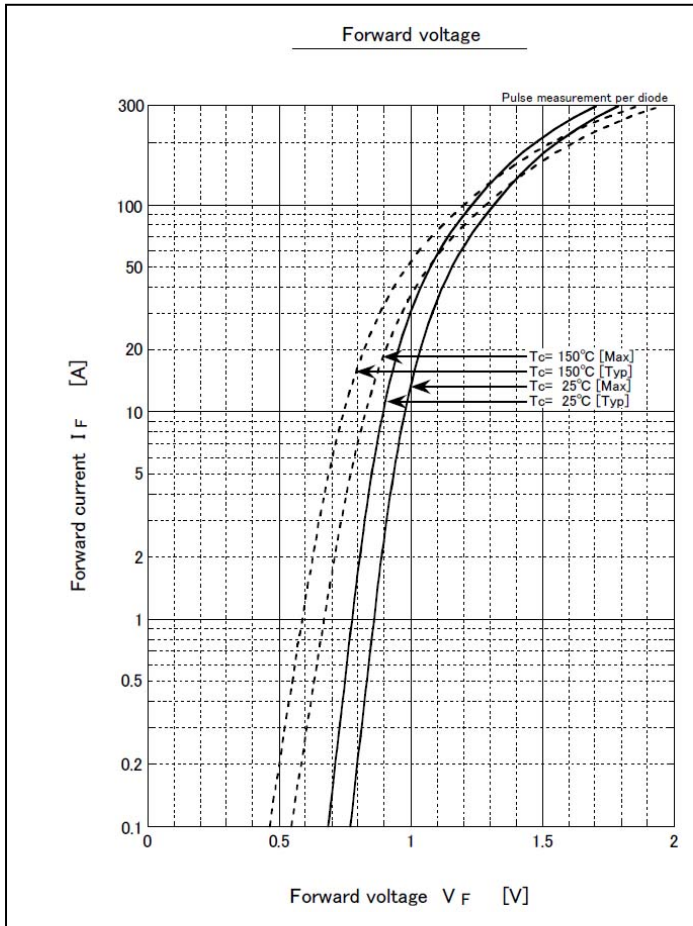
※ : See the original Specifications

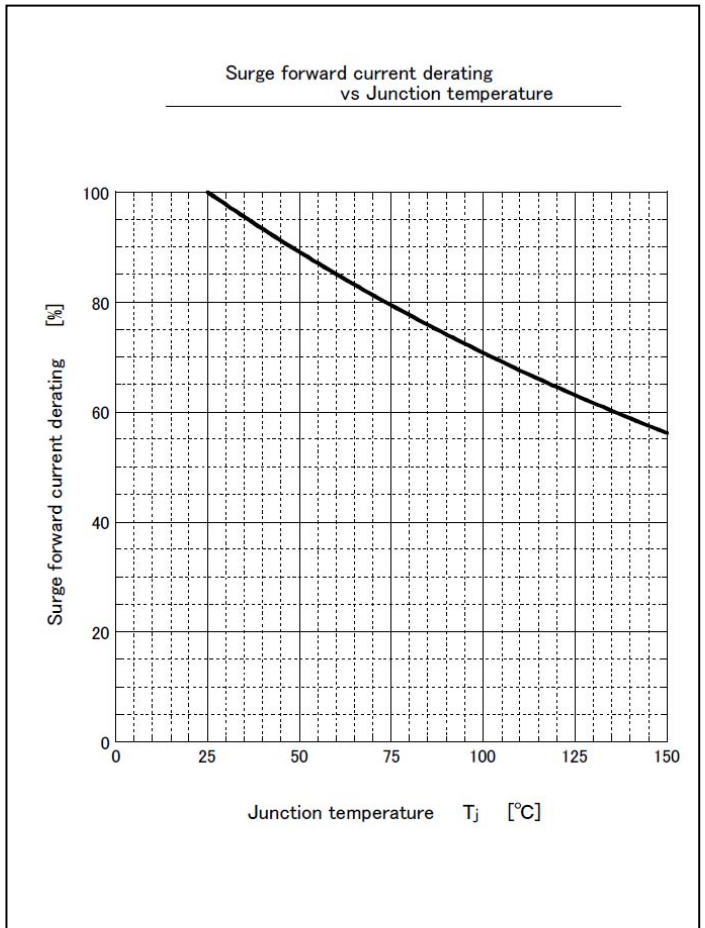
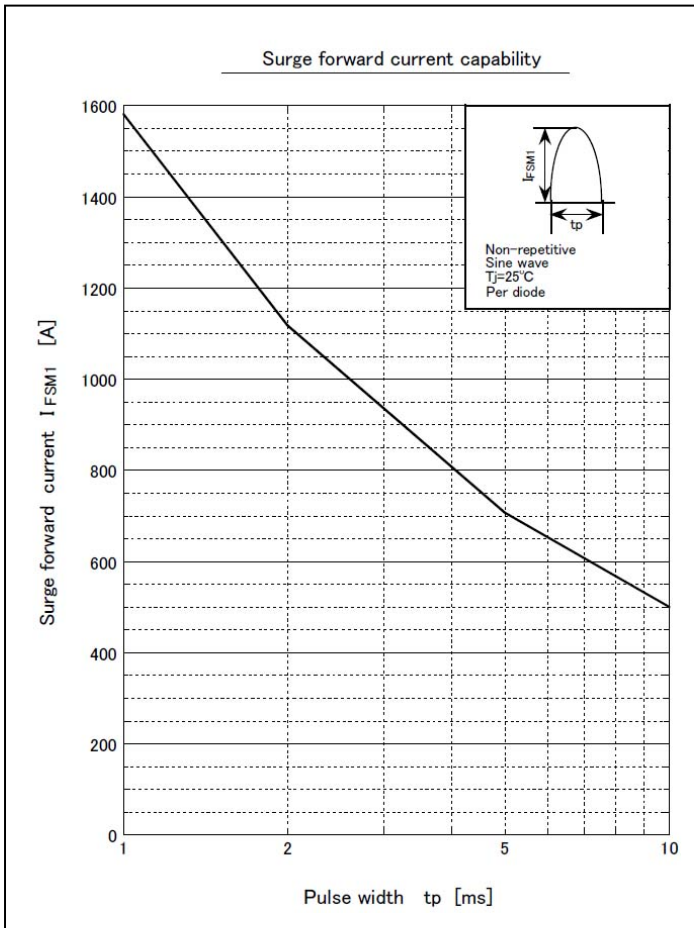
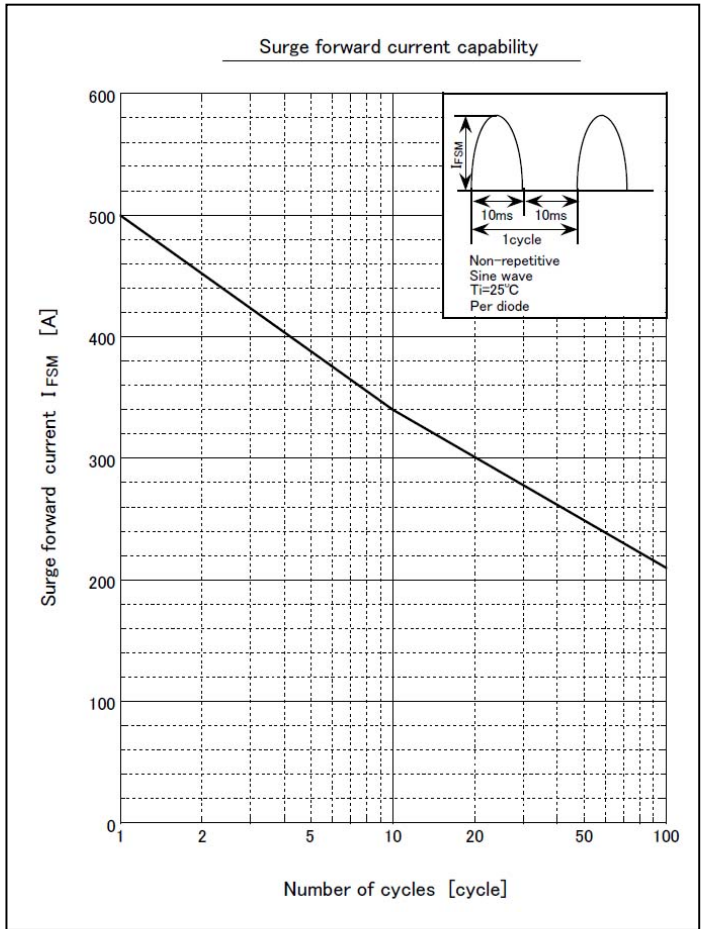
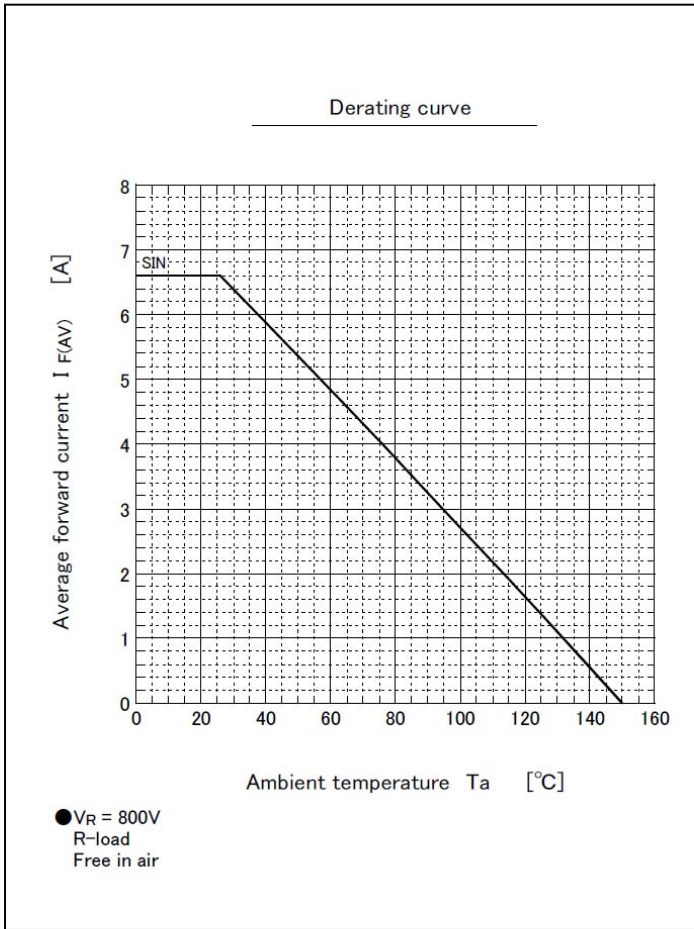
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=35A, Pulse measurement, per diode			1.1	V
Reverse current	I_R	VR=800V, Pulse measurement, per diode			10	μ A
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			0.2	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate			11	°C/W

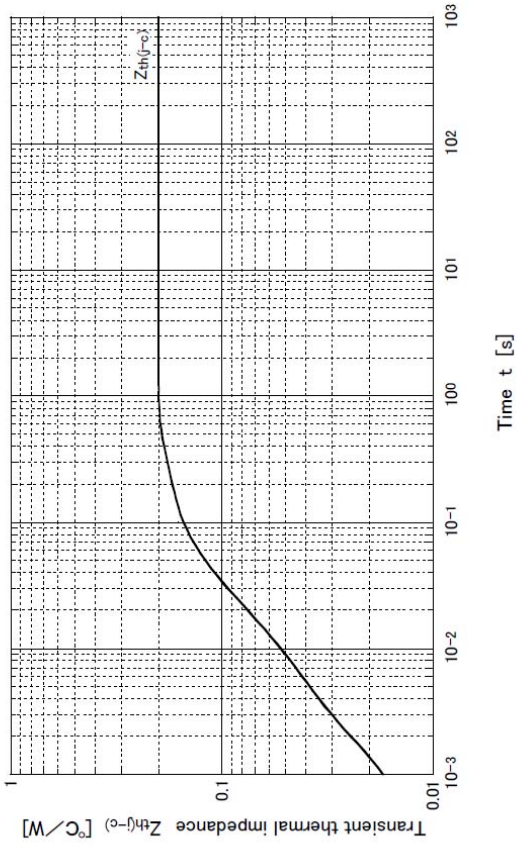
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CHARACTERISTIC DIAGRAMS





Transient thermal impedance



Notes

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