

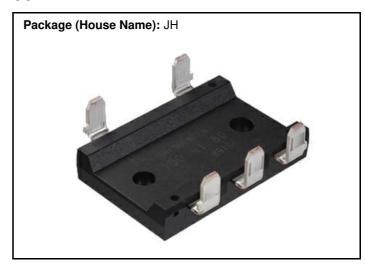
## **D70JHB80V**

# Bridge Diodes 800V, 70A

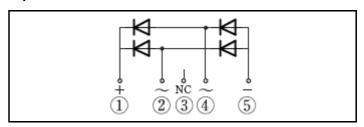
#### **Feature**

- 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 temperrature	Tstg		-55 to 150	°C	
Junction temperature	Tj		-55 to 150	°C	
Repetitive peak reverse voltage	$V_{RRM}$		800	V	
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, With heatsink, Tc=99°C	70	А	
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, Without heatsink, Ta=25°C	6.6	А	
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	500	А	
Surge forward current	I <sub>FSM1</sub>	tp=1ms, sine wave, Non-repetitive, peak value, per diode, Tj=25°C	1581	А	
Current squared time	l²t	1ms≦tp<10ms, Tj=25°C, per diode	1250	A <sup>2</sup> s	
Dielectric strength	Vdis	Terminals to case backside, AC 1 minute	2.5	kV	
Mounting torque	TOR	(Recommended torque : 1.2N·m)	1.5	N∙m	

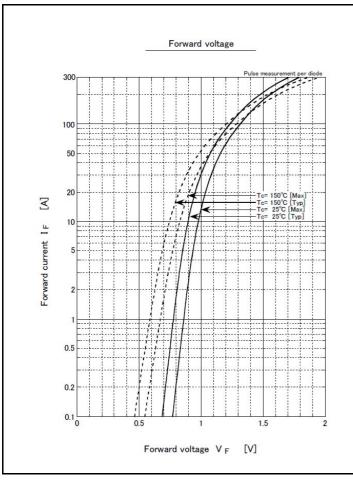
<sup>\* :</sup> See the original Specifications

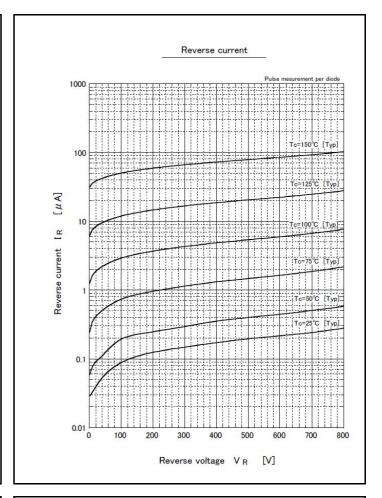
## **Electrical Characteristics** (unless otherwise specified : Tc=25°C)

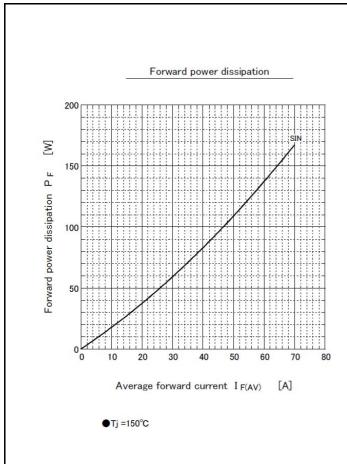
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	O.m.
Forward voltage	V <sub>F</sub>	IF=35A, Pulse measurement, per diode			1.1	V
Reverse current	I <sub>R</sub>	VR=800V, Pulse measurement, per diode			10	μΑ
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			0.3	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, Without heatsink			11	°C/W

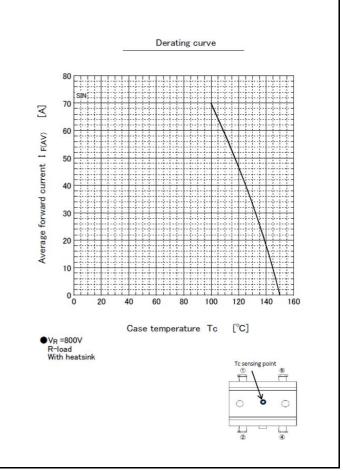
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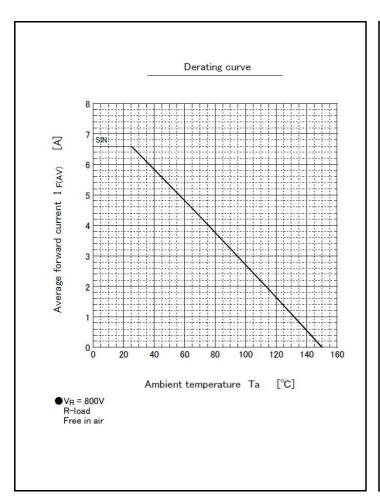
## **CHARACTERISTIC DIAGRAMS**

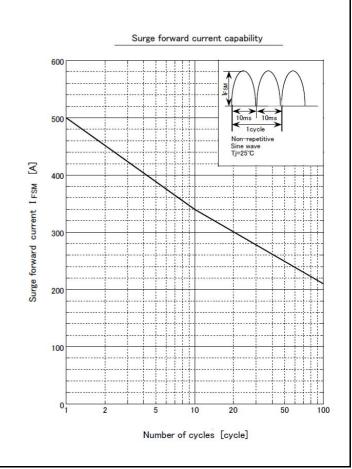


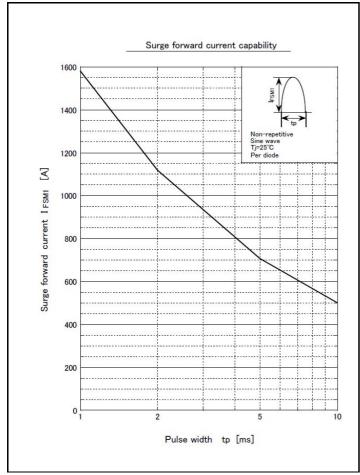


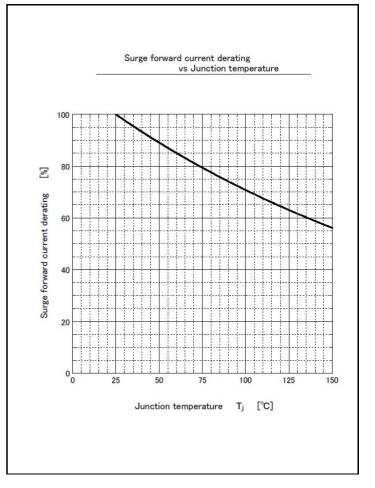


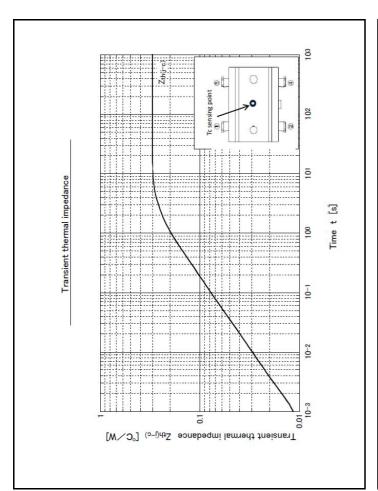


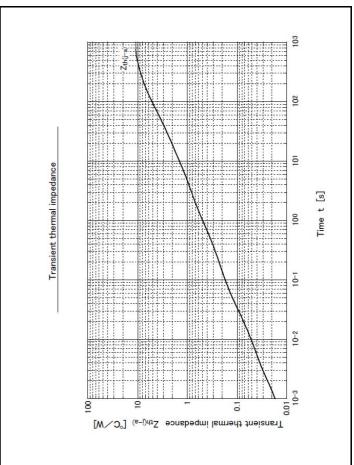






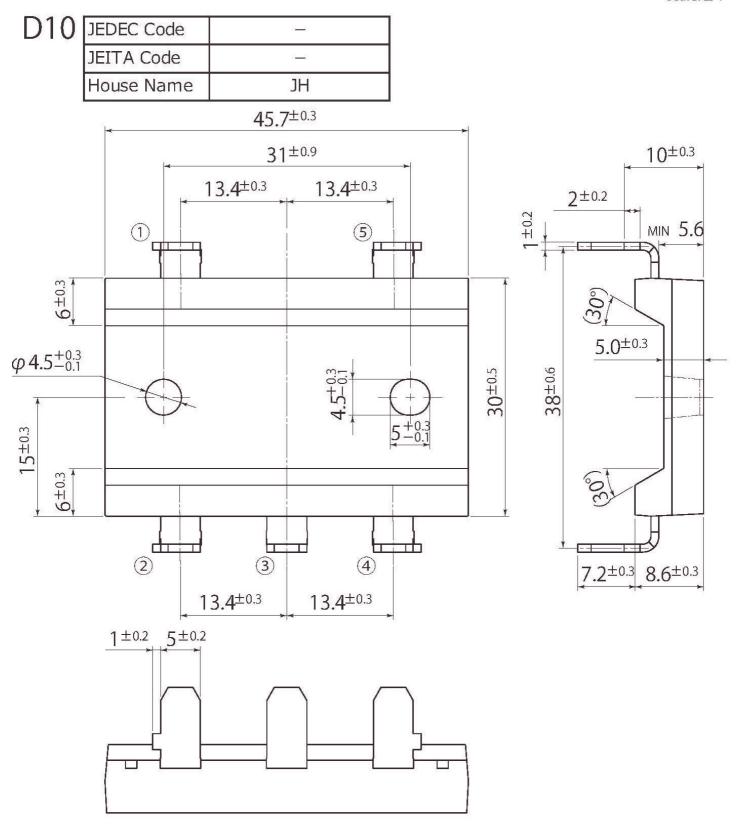






unit:mm

scale: 2/1



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### [Special applications]

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