

D10FR60V

General Rectifying Diodes 600V, 10A

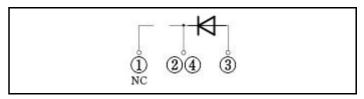
Feature

- Permit high current with a small package
- 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}		600	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On alumina substrate, With heatsink, Tc=130°C *	10	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	200	А
Surge forward current	I _{FSM1}	tp=1ms, sine wave, Non-repetitive, peak value, Tj=25°C 440		А

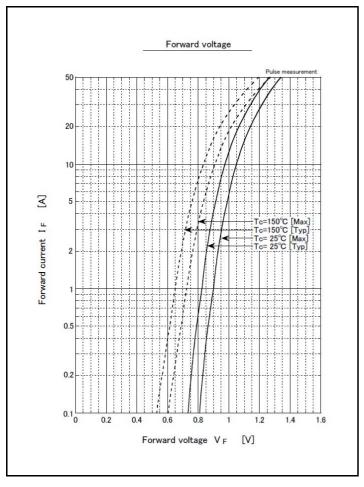
^{* :} See the original Specifications

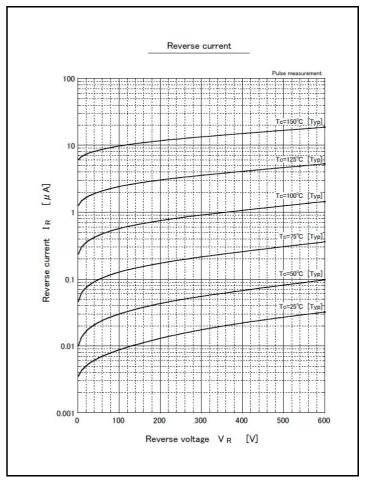
Electrical Characteristics (unless otherwise specified : Tc=25°C)

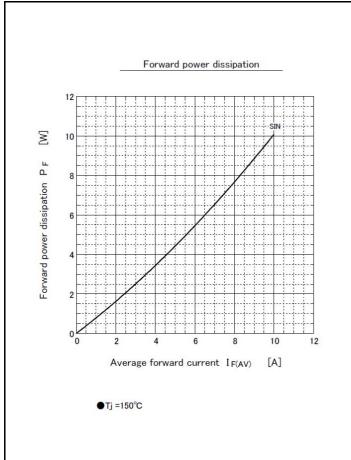
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	IF=10A, Pulse measurement			1.05	V
Reverse current	I _R	VR=600V, Pulse measurement			10	μΑ
Thermal resistance	Rth(j-c)	Junction to lead, On alumina substrate, With heatsink *			1.9	°C/W

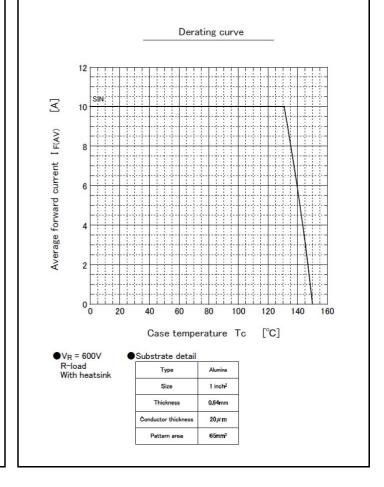
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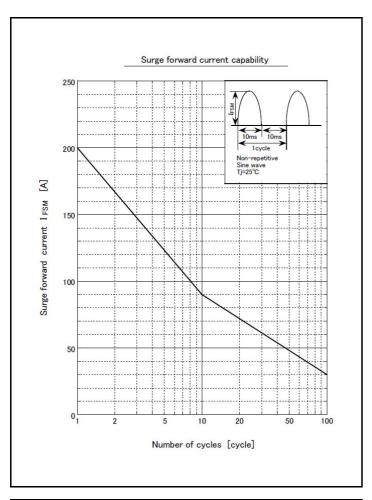
CHARACTERISTIC DIAGRAMS

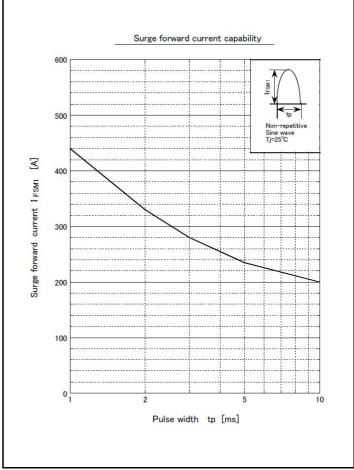


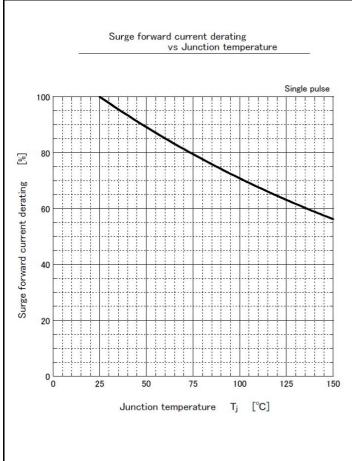


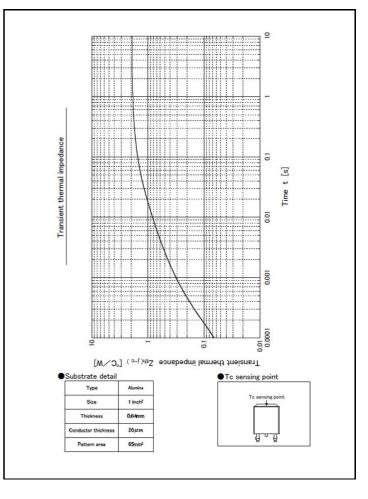








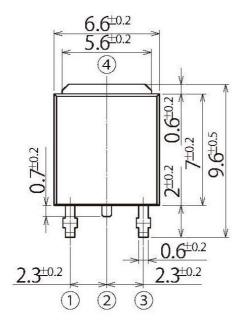


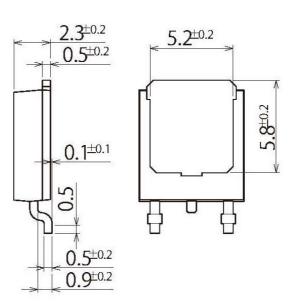


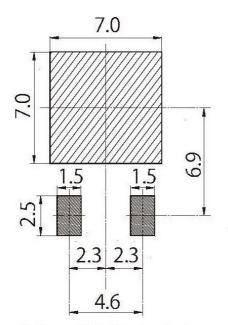
scale: 4/1

G5

JEDEC Code	TO-252AA similar		
JEITA Code	-		
House Name	FR		







Referential Soldering Pad

 $[\]bullet$ Optimize soldering pad to the board design and soldering condition.

Notes

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(Special applications)

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(Specific applications)

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