

D15FR60V

General Rectifying Diodes

600V, 15A

Feature

- Permit high current with a small package
- Pb free terminal
- RoHS:Yes

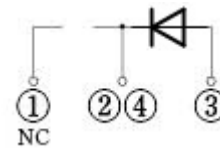
OUTLINE

Package (House Name): FR

Package (JEDEC Code): TO-252AA similar



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		-55 to 150	°C
Repetitive peak reverse voltage	V _{RRM}		600	V
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, With heatsink, T _c =125°C	15	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25°C	300	A
Surge forward current	I _{FSM1}	t _p =1ms, sine wave, Non-repetitive, peak value, T _j =25°C	670	A

※ :See the original Specifications

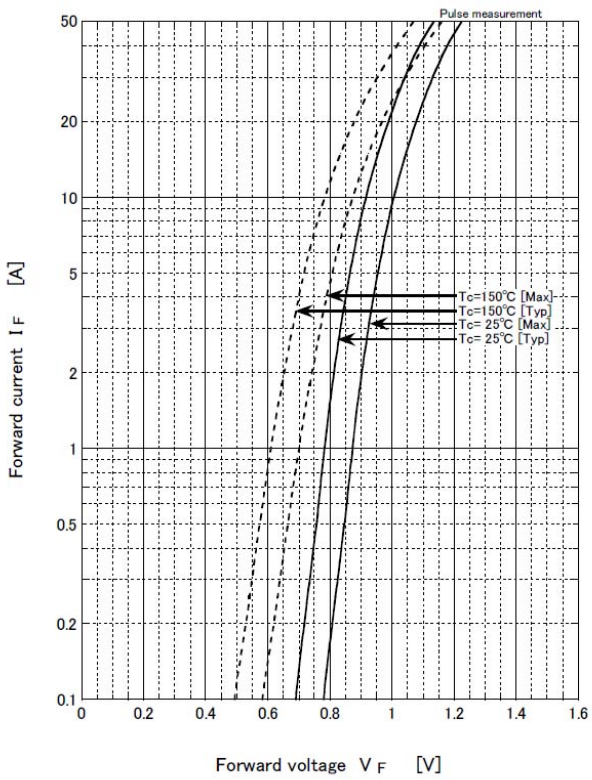
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	I _F =15A, Pulse measurement			1.05	V
Reverse current	I _R	V _R =600V, Pulse measurement			10	μA
Thermal resistance	R _{th(j-c)}	Junction to lead, With heatsink			1.6	°C/W

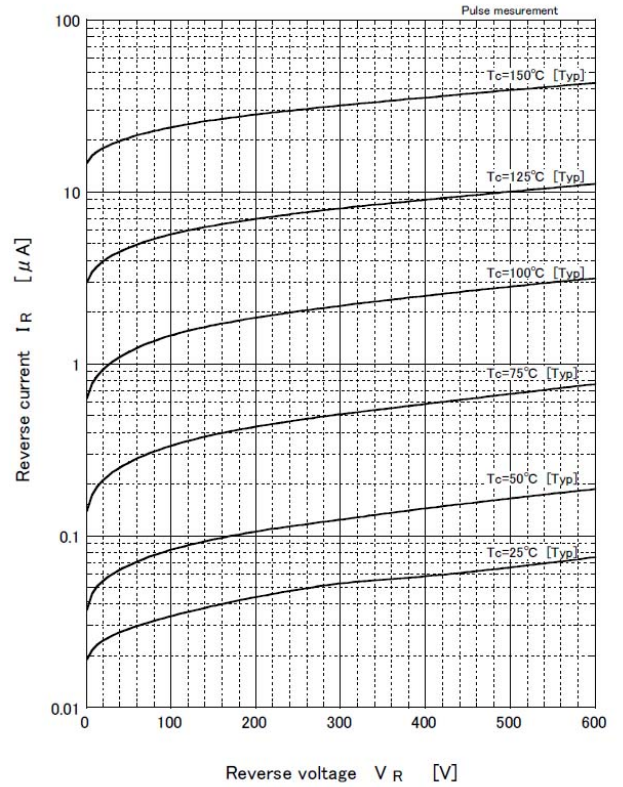
* : See the original Specifications

CHARACTERISTIC DIAGRAMS

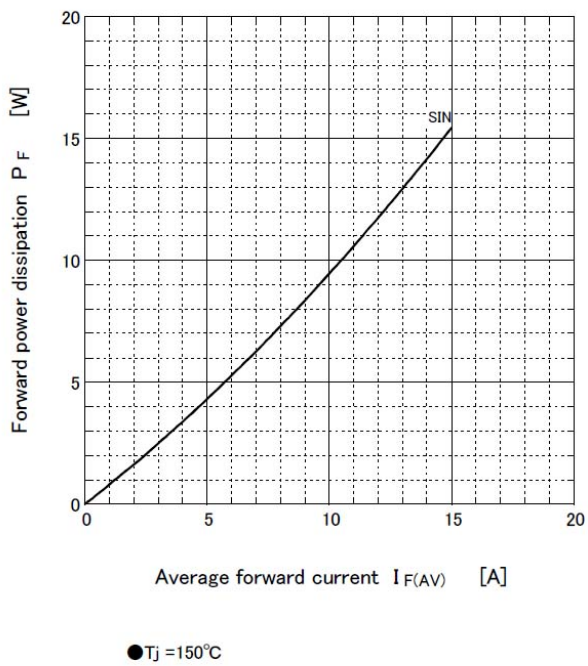
Forward voltage



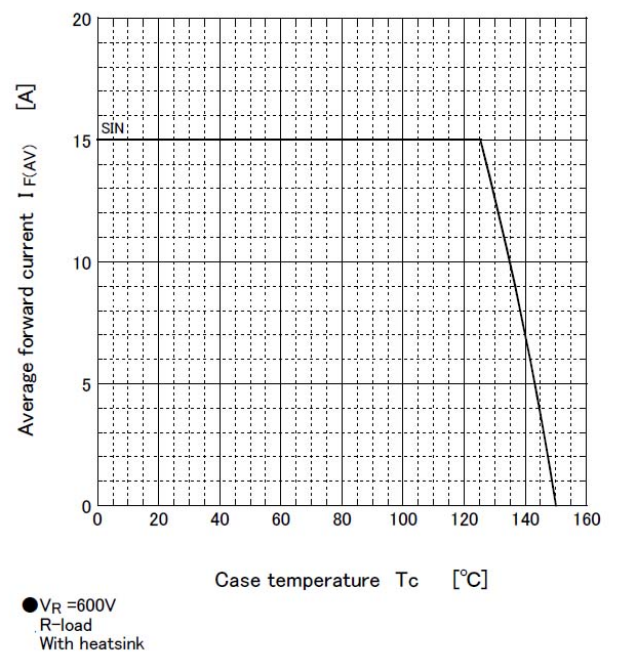
Reverse current

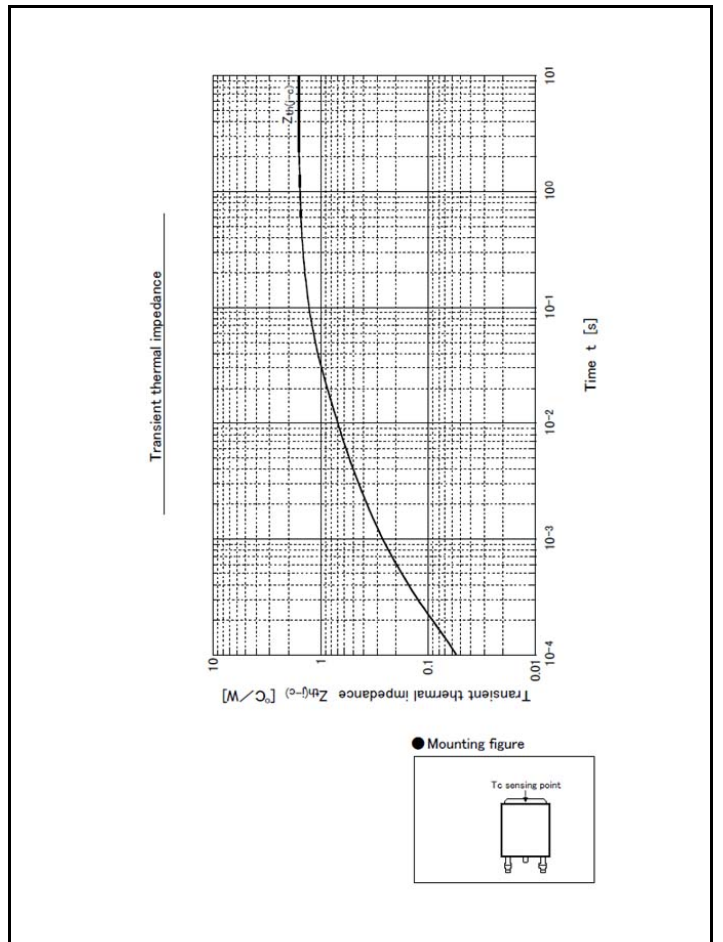
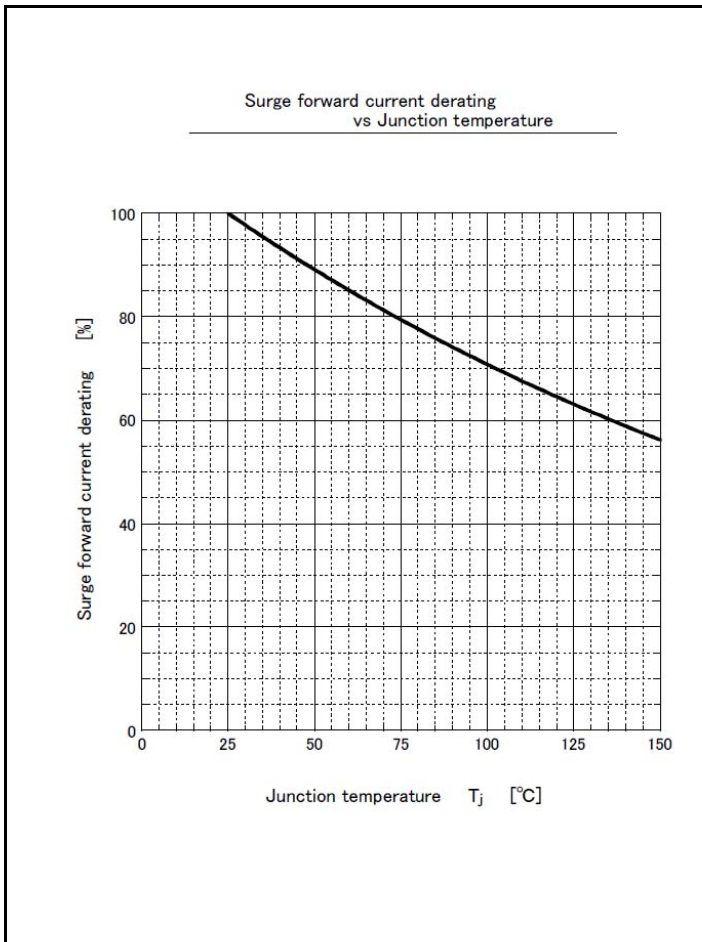
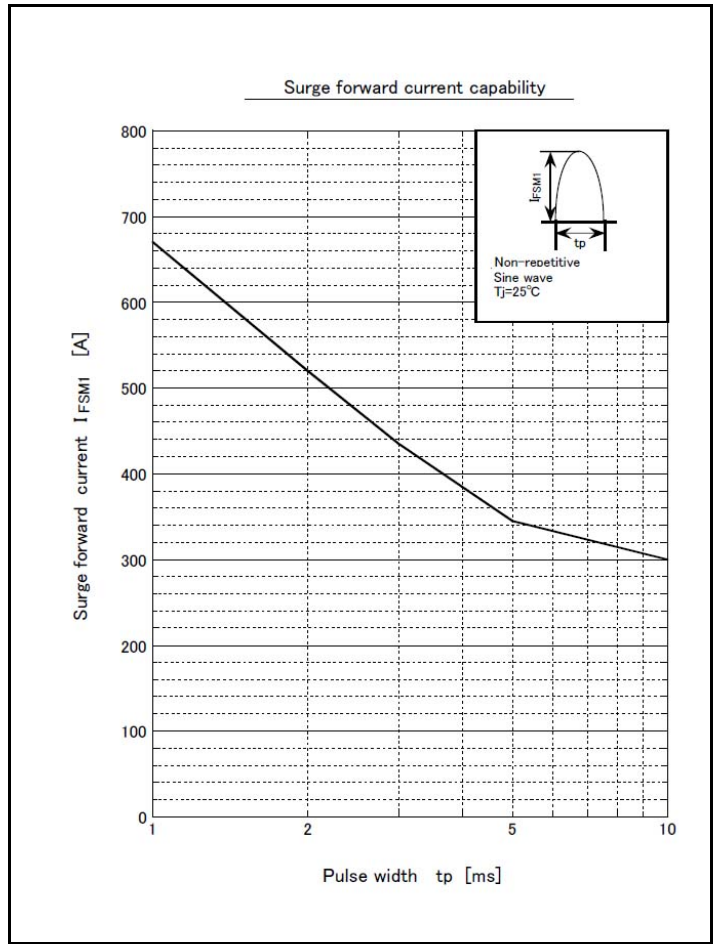
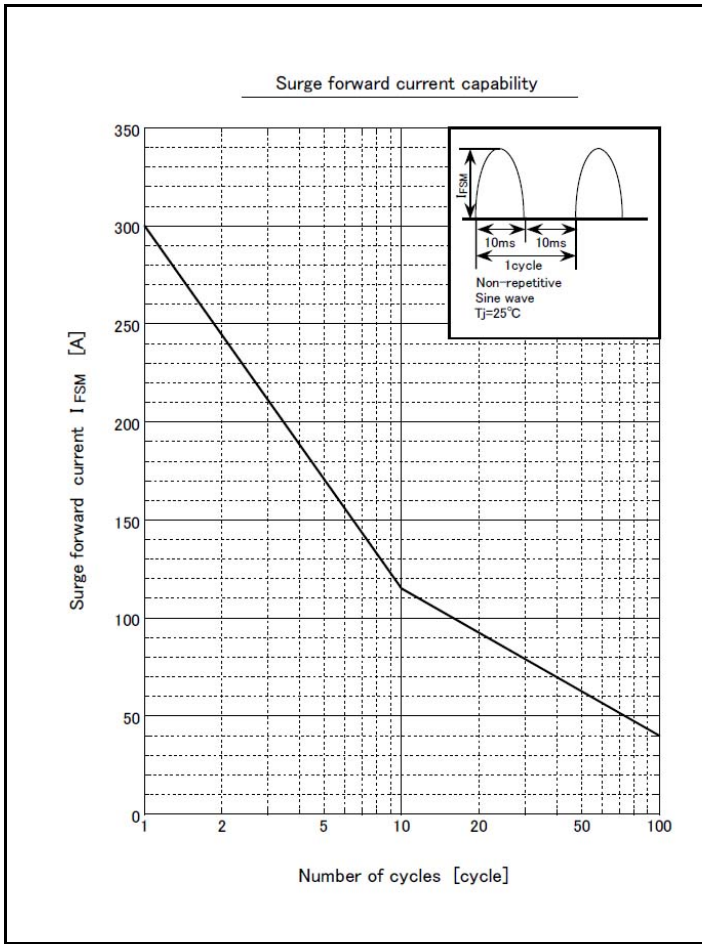


Forward power dissipation



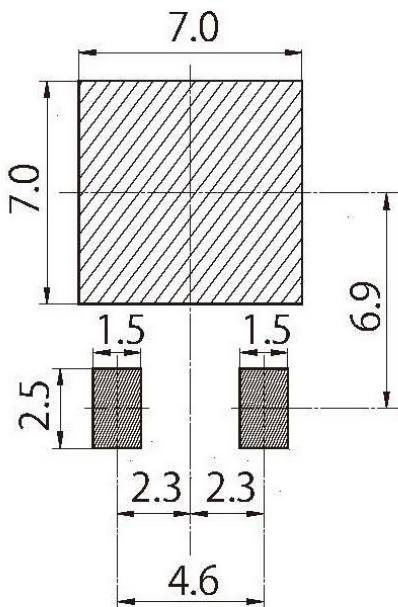
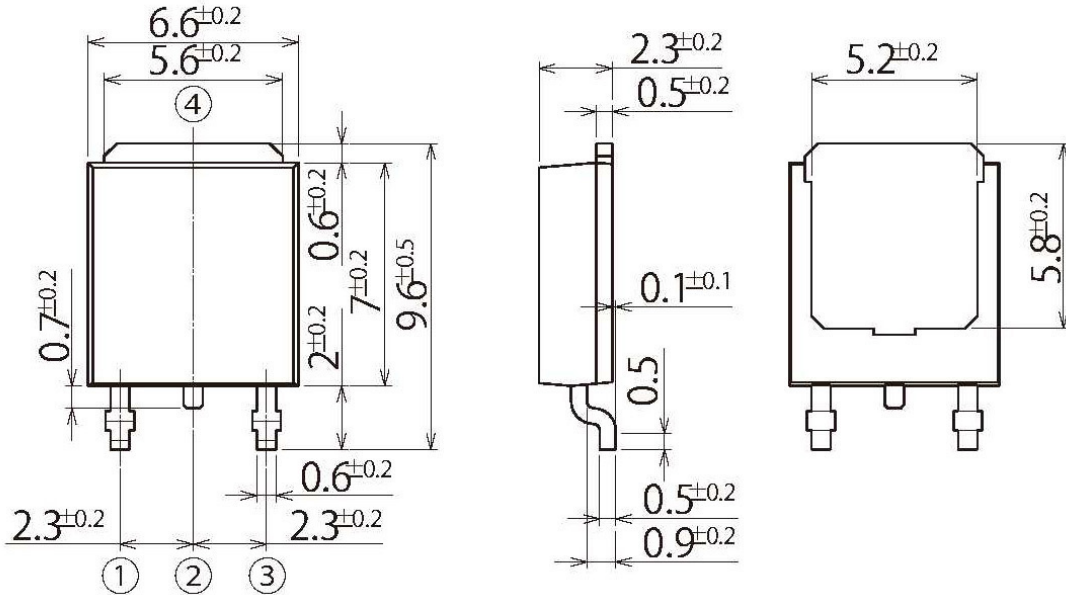
Derating curve





G5

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



Referential Soldering Pad

• Optimize soldering pad to the board design and soldering condition.

Notes

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