

D25FD60V

General Rectifying Diodes 600V, 25A

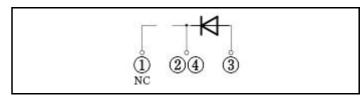
Feature

- SMD
- · Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : TI=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, With heatsink, Tc=113°C	25	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	450	Α
Surge forward current	I _{FSM1}	tp=1ms, sine wave, Non-repetitive, peak value, Tj=25°C	wave, Non-repetitive, peak value, 1423	
Current squared time	l ² t	1ms≦tp<10ms, Tj=25°C	1013	A ² s

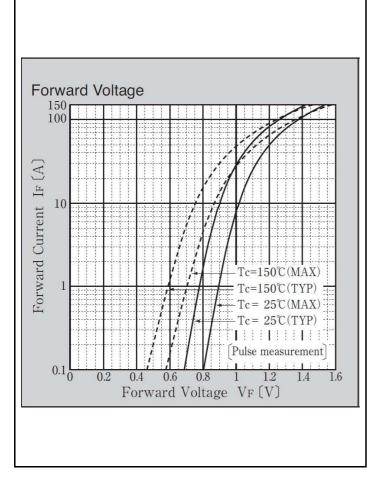
^{* :} See the original Specifications

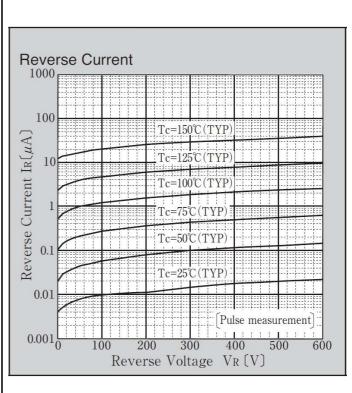
Electrical Characteristics (unless otherwise specified : TI=25°C)

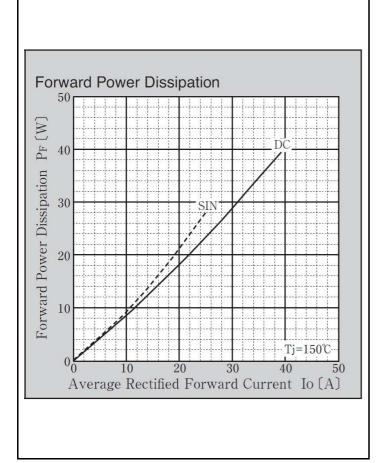
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	O.III
Forward voltage	V _F	IF=25A, Pulse measurement			1.1	V
Reverse current	I _R	VR=600V, Pulse measurement			10	μΑ
Thermal resistance	Rth(j-c)	Junction to case, with heatsink			1.3	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			65	°C/W

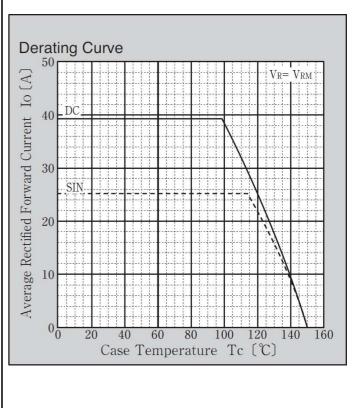
^{*} :See the original Specifications

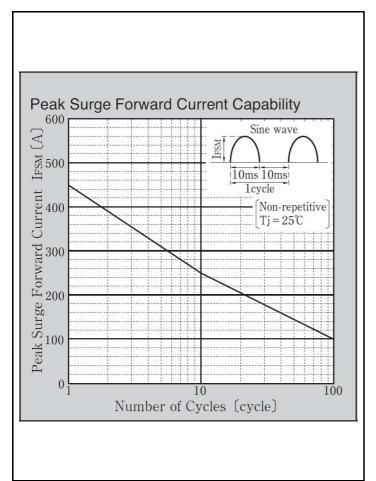
CHARACTERISTIC DIAGRAMS

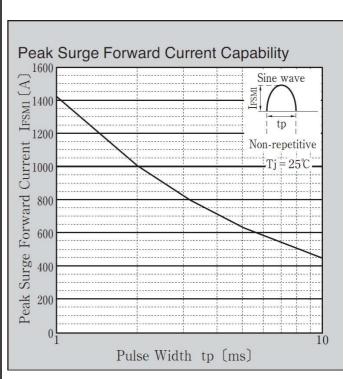


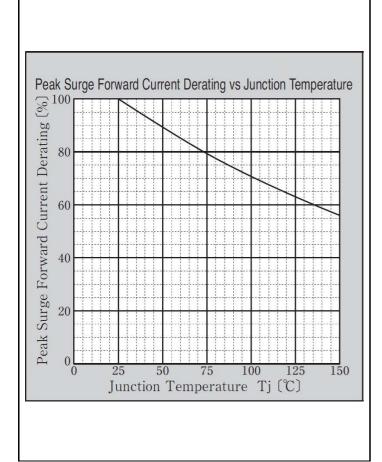


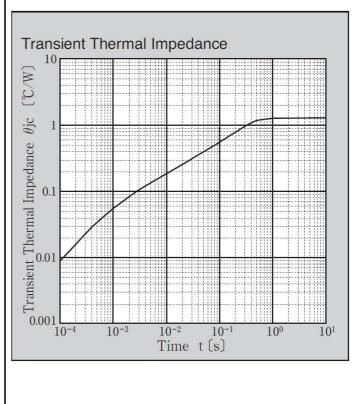








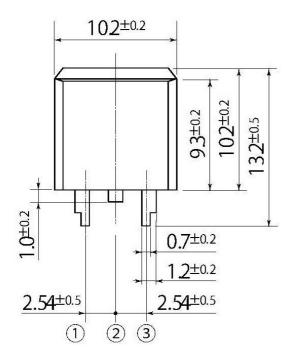


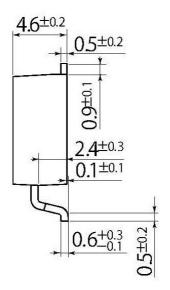


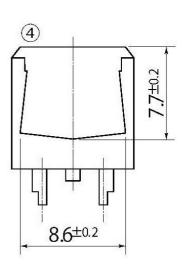
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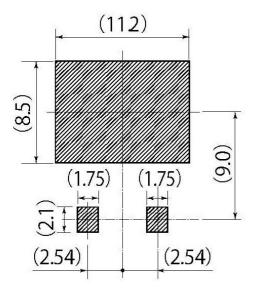
H2

JEDEC Code	-		
JEITA Code	SC-83 similar		
House Name	FD		









Referential Soldering Pad

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

Notes

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(Special applications)

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