

D30FDC10ST

Schottky Barrier Diodes 100V, 30A

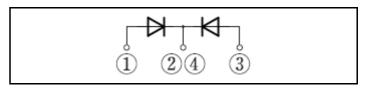
Feature

- SMD
- Ultra low I_R
- · Available for automotive use
- · 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		150	°C
Repetitive peak reverse voltage	V_{RRM}		100	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=108°C	30	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	300	А

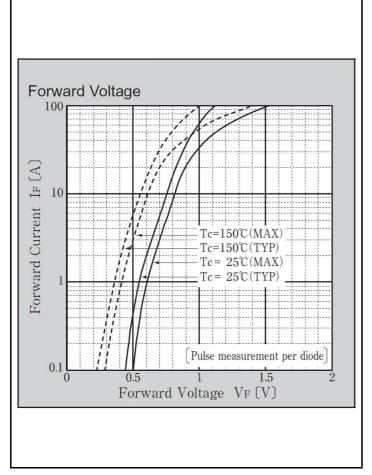
^{*} :See the original Specifications

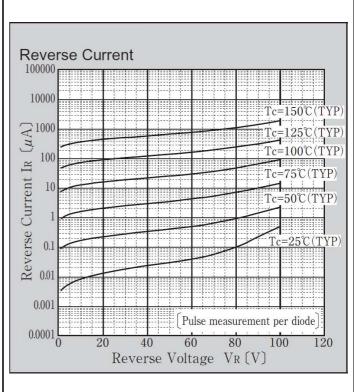
Electrical Characteristics (unless otherwise specified : Tc=25°C)

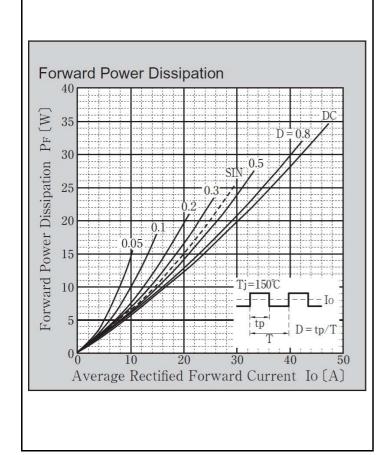
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	IF=15A, Pulse measurement, per diode		0.8	0.86	V
Reverse current	I _R	VR=100V, Pulse measurement, per diode			0.04	mA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		242		pF
Thermal resistance	Rth(j-c)	Junction to case			1.6	°C/W

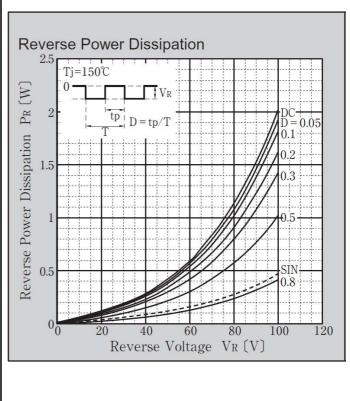
^{* :} See the original Specifications

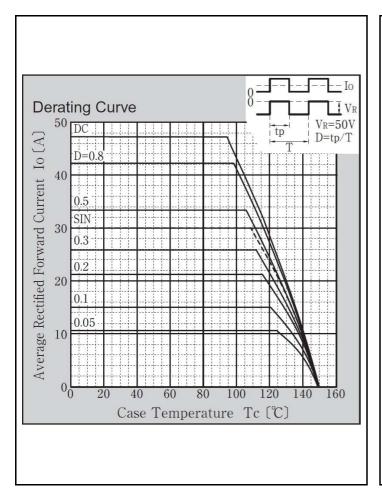
CHARACTERISTIC DIAGRAMS

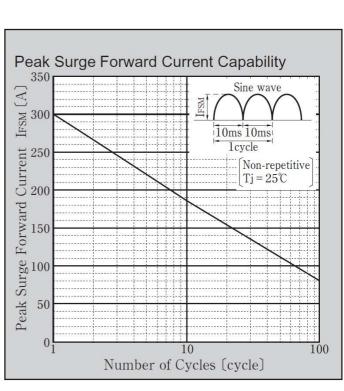


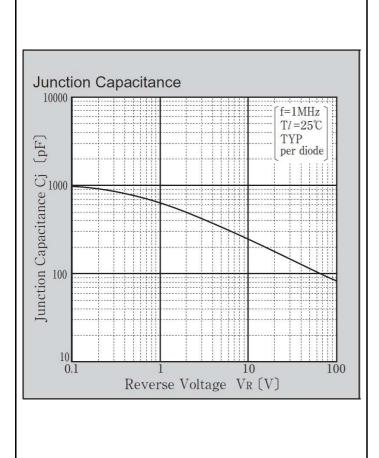


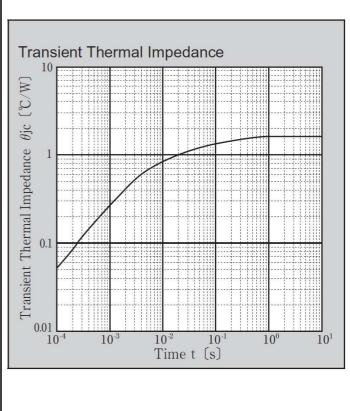








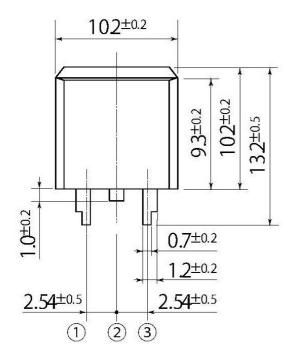


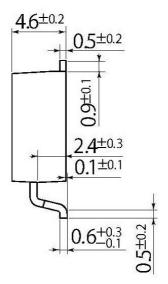


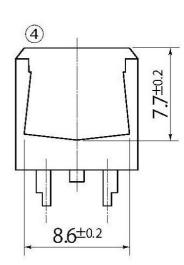
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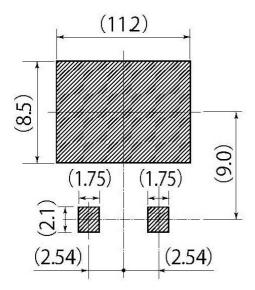
H2

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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