D30FDC4S

Schottky Barrier Diodes 40V, 30A

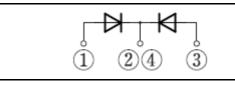
Feature

- SMD
- $\bullet \ Low \ V_F$
- Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : Tc=25°C)

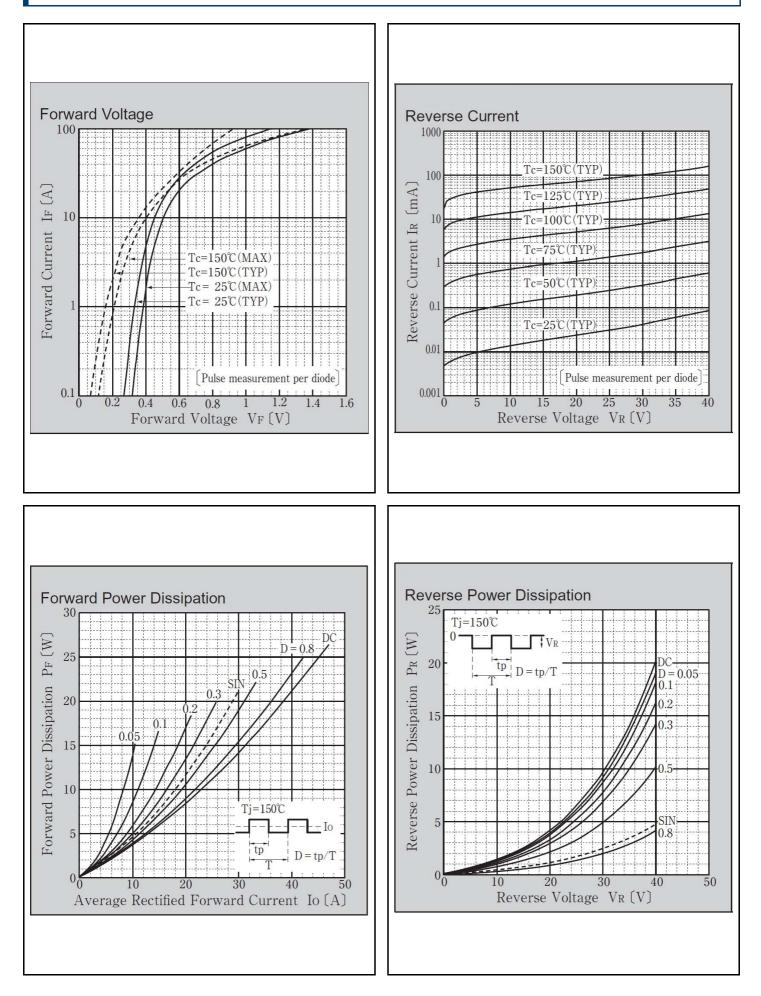
Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	V _{RRM}		40	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, With heatsink, Tc=114°C	30	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	300	А

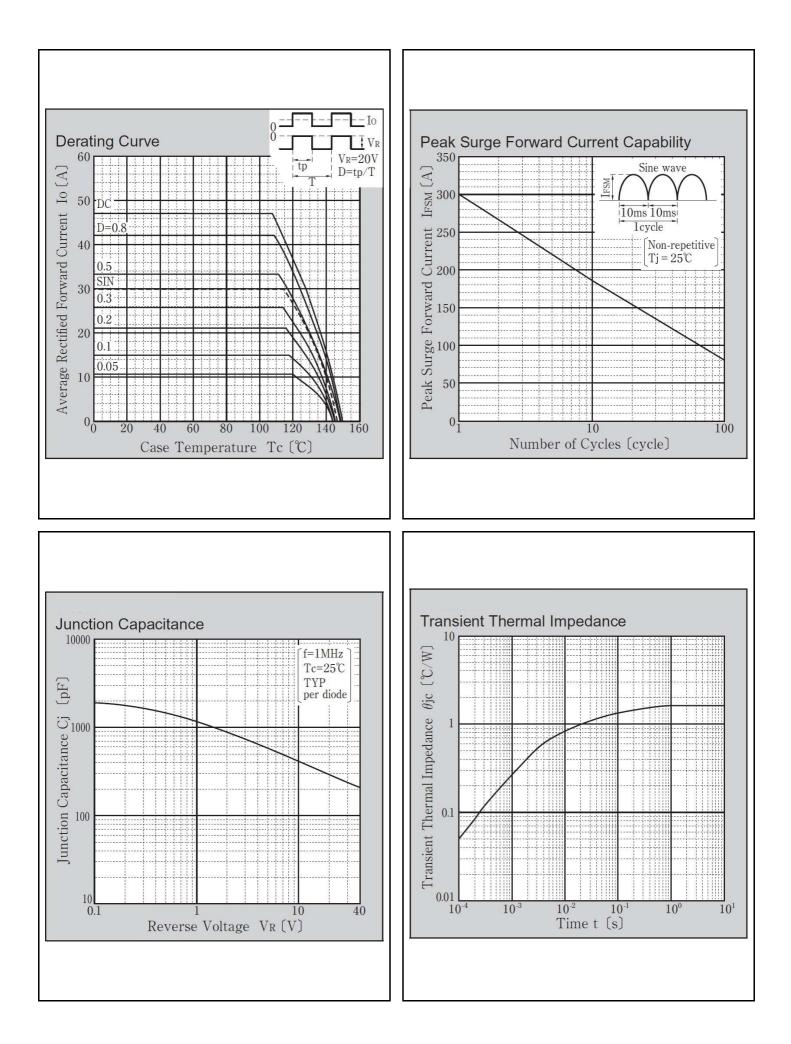
* : See the original Specifications

Electrical Characteristics (unless otherwise specified : Tc=25°C)								
Item	Symbol	Conditions	Ratings			Unit		
			MIN	ТҮР	MAX			
Forward voltage	V _F	IF=15A, Pulse measurement, per diode			0.55	V		
Reverse current	I _R	VR=40V, Pulse measurement, per diode			1.5	mA		
Total capacitance	Ct	f=1MHz, VR=10V, per diode		415		pF		
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			1.6	°C/W		

* : See the original Specifications

CHARACTERISTIC DIAGRAMS

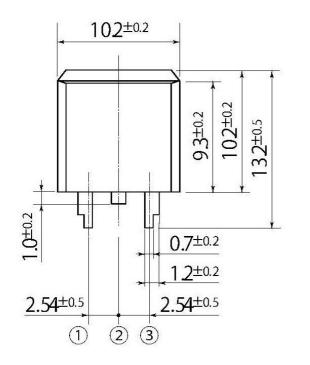


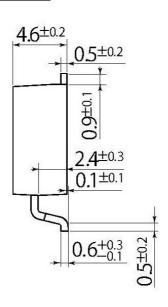


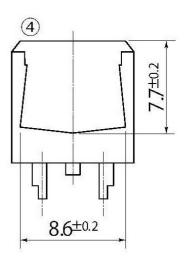
unit:mm

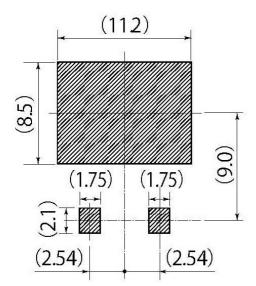
scale: 3/1

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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- 2. All products described or contained herein are designed with a quality level intended for use in standard applications requiring an ordinary level of reliability. If these products are to be used in equipment or devices for special or specific applications requiring an extremely high grade of quality or reliability in which failures or malfunctions of products may directly affect human life or health, a local Shindengen office must be contacted in advance to confirm that the intended use of the product is appropriate. Shindengen products are grouped into the following three applications according the quality grade.

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[Special applications]

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[Specific applications]

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