

D30FDC4S
Schottky Barrier Diodes
40V, 30A

Feature

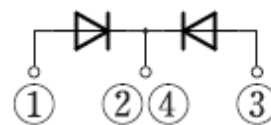
- SMD
- Low V_F
- Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): FD
Package (JEITA Code): SC-83 similar



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : $T_c=25^{\circ}\text{C}$)

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T_{stg}		-55 to 150	$^{\circ}\text{C}$
Junction temperature	T_j		-55 to 150	$^{\circ}\text{C}$
Repetitive peak reverse voltage	V_{RRM}		40	V
Average forward current	$I_F(AV)$	50Hz sine wave, Resistance load, Rating for each diode $I_F(AV)/2$, With heatsink, $T_c=114^{\circ}\text{C}$	30	A
Surge forward current	I_{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, $T_j=25^{\circ}\text{C}$	300	A

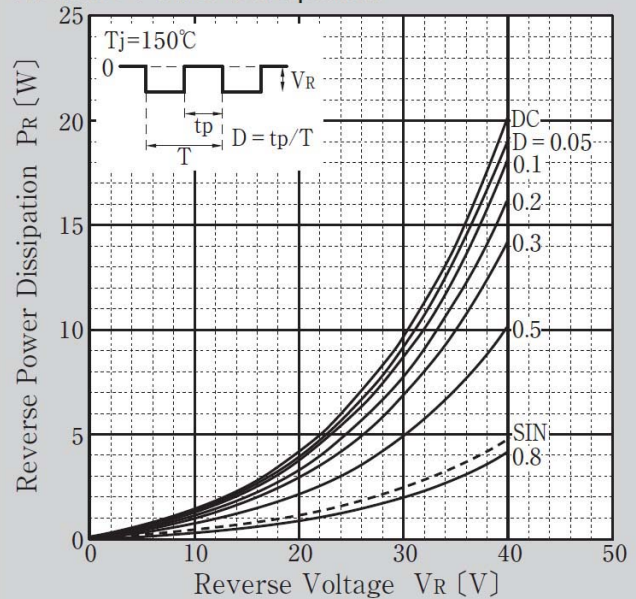
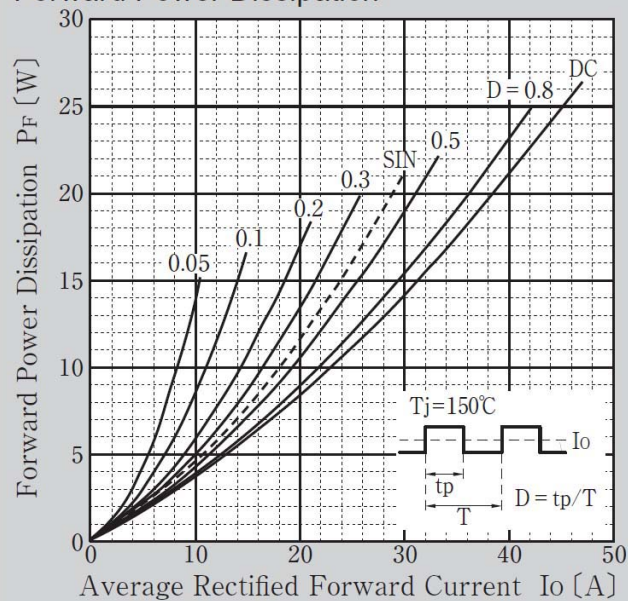
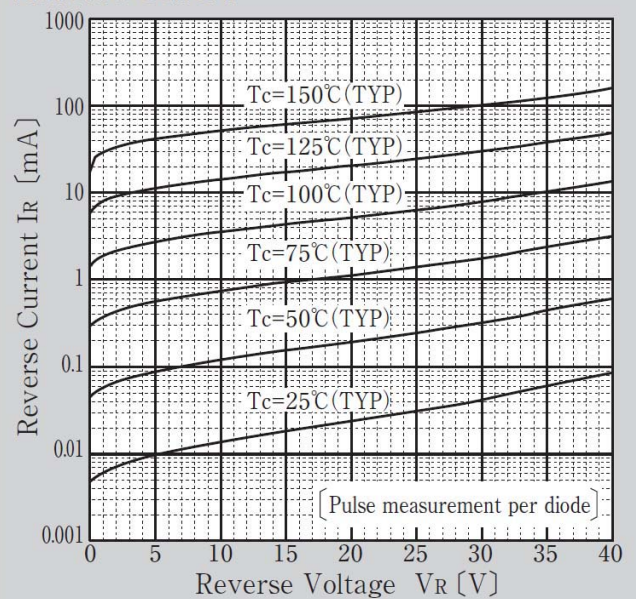
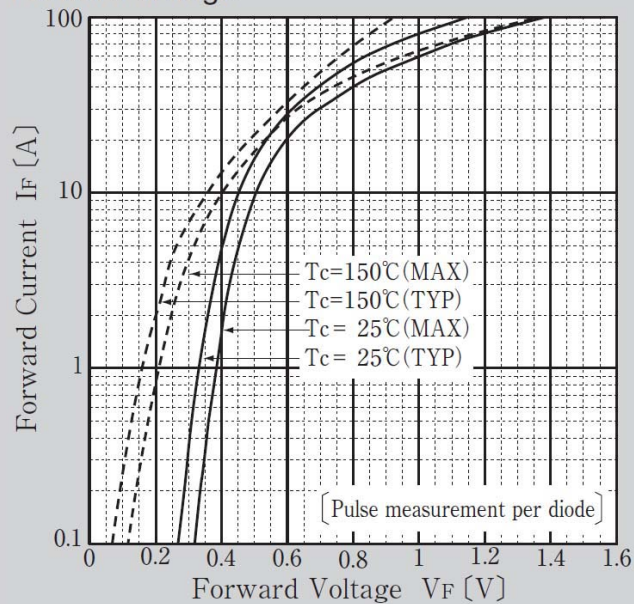
※ :See the original Specifications

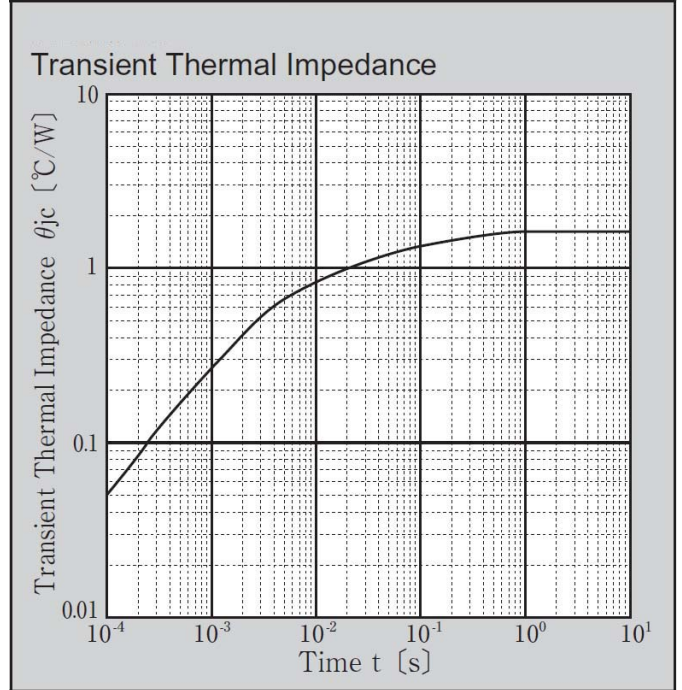
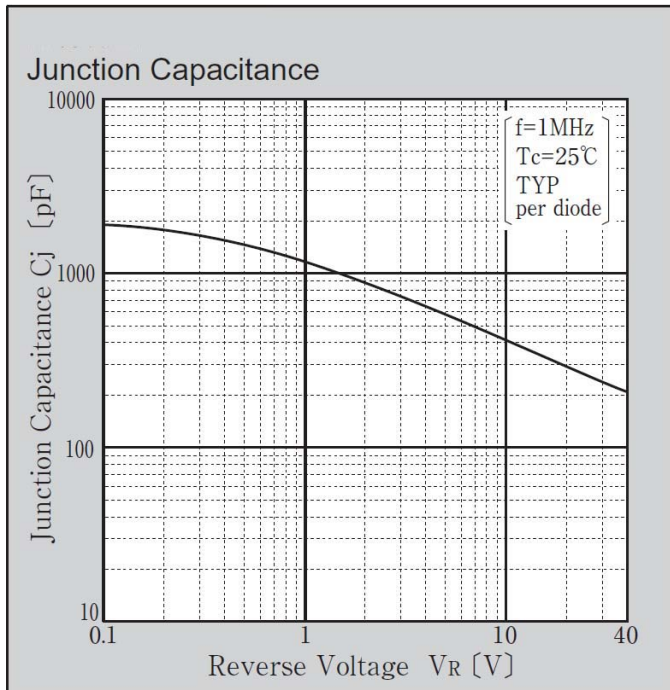
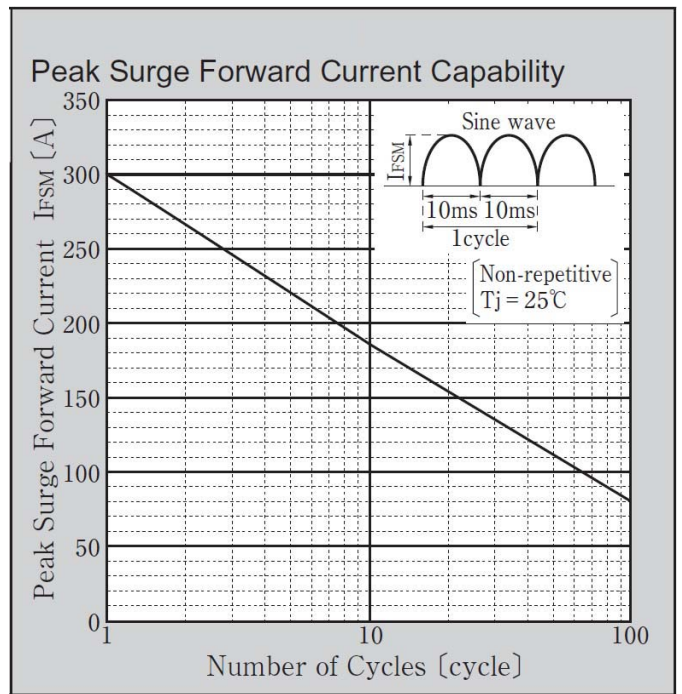
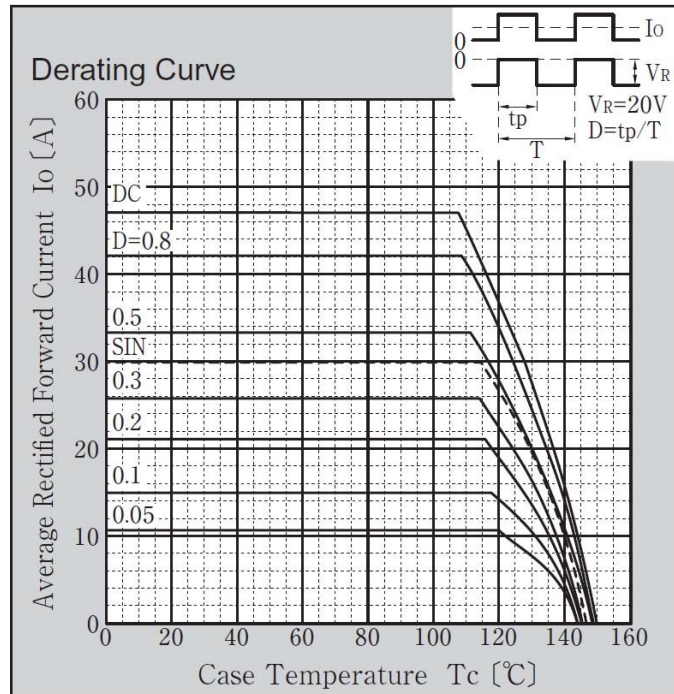
Electrical Characteristics (unless otherwise specified : $T_c=25^{\circ}\text{C}$)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	$I_F=15\text{A}$, Pulse measurement, per diode			0.55	V
Reverse current	I_R	$V_R=40\text{V}$, Pulse measurement, per diode			1.5	mA
Total capacitance	C_t	$f=1\text{MHz}$, $V_R=10\text{V}$, per diode		415		pF
Thermal resistance	$R_{th(j-c)}$	Junction to case, With heatsink			1.6	$^{\circ}\text{C/W}$

※ :See the original Specifications

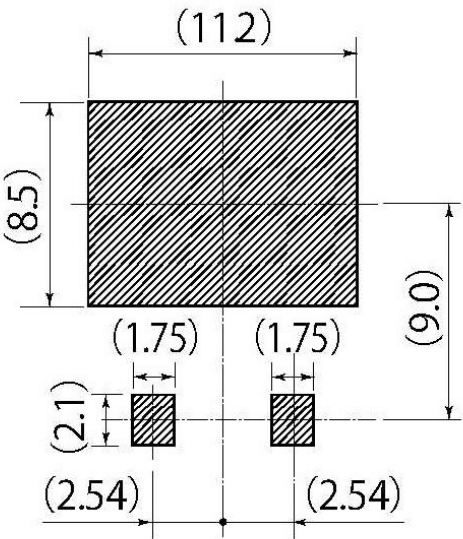
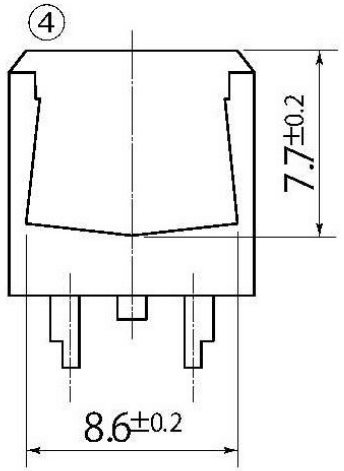
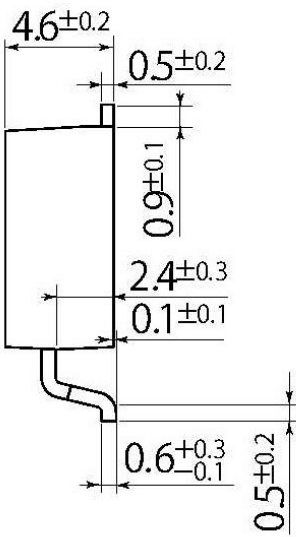
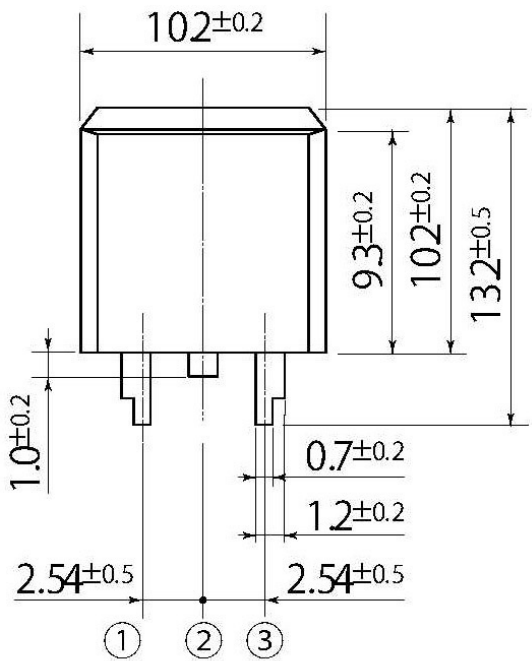
CHARACTERISTIC DIAGRAMS





H2

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



Referential Soldering Pad

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

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