

D1FH3

Schottky Barrier Diodes 30V, 3A

Feature

- Small SMD
- High Recovery Speed
- Low V_F
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 1F

Package (JEDEC Code): DO-214AC



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 125	°C
Junction temperature	Tj		-55 to 125	°C
Repetitive peak reverse voltage	V_{RRM}		30	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Tc=95°C	3	Α
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, TI=91°C	3	Α
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	2.5	Α
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	60	Α

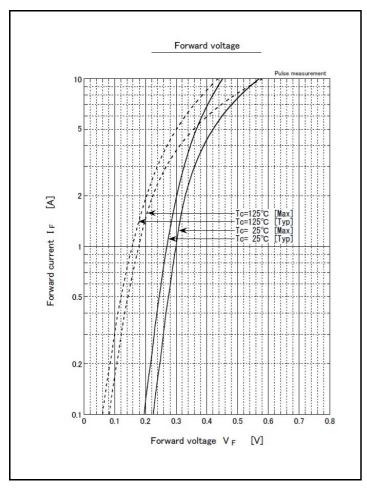
^{* :} See the original Specifications

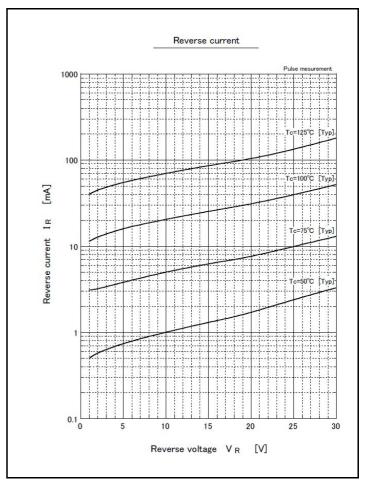
Electrical Characteristics (unless otherwise specified : Tc=25°C)

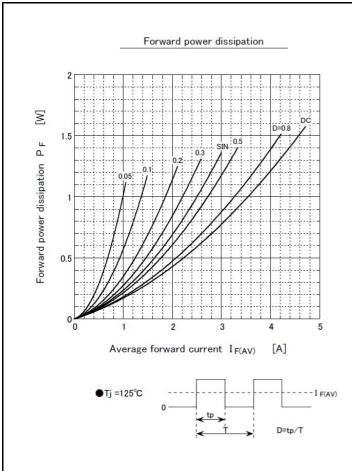
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Ome
Forward voltage	V _F	IF=3A, Pulse measurement			0.36	V
Forward voltage	V _F	IF=1A, Pulse measurement			0.3	V
Reverse current	I _R	VR=30V, Pulse measurement			2	mA
Total capacitance	Ct	f=1MHz, VR=10V		130		pF
Thermal resistance	Rth(j-c)	Junction to case			16	°C/W
Thermal resistance	Rth(j-l)	Junction to lead			18	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			65	°C/W

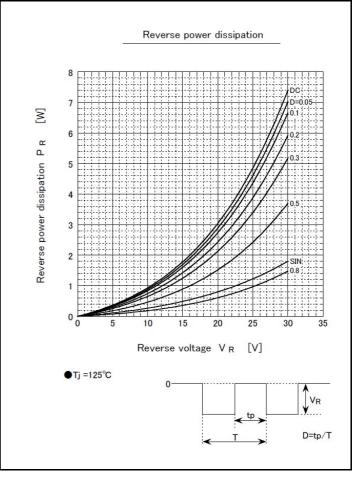
^{*} :See the original Specifications

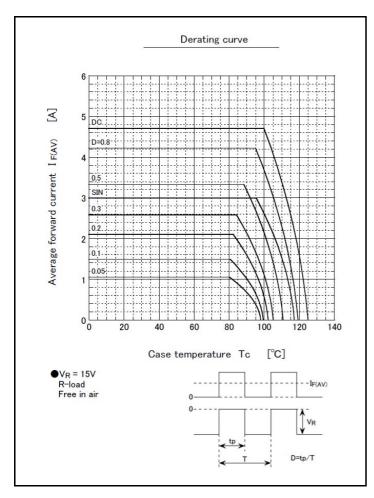
CHARACTERISTIC DIAGRAMS

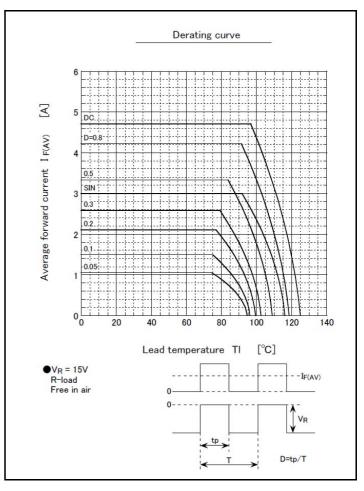


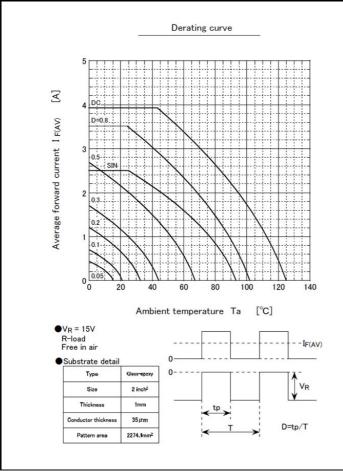


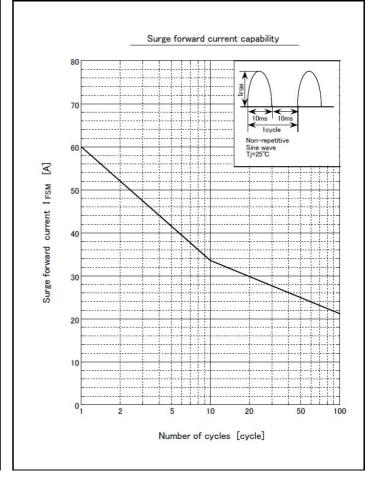


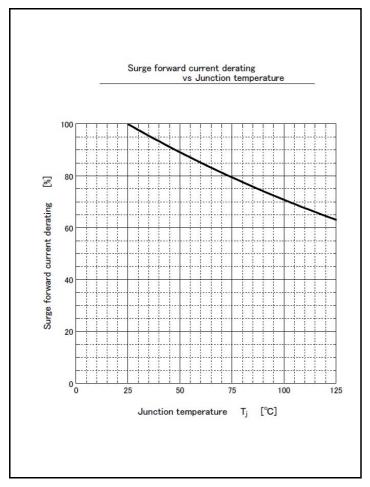


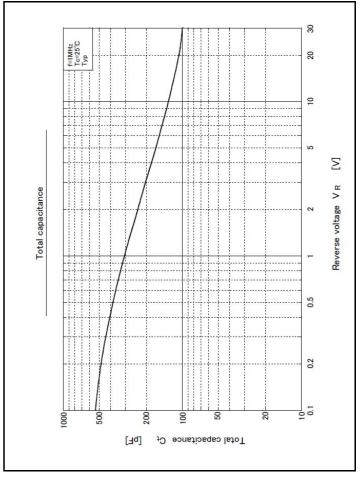


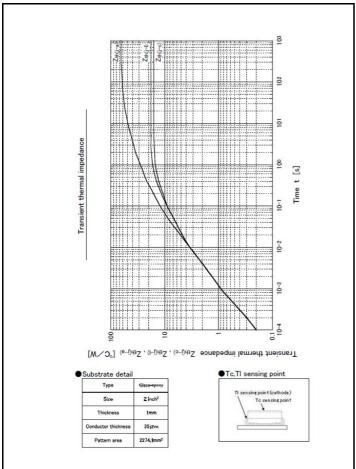


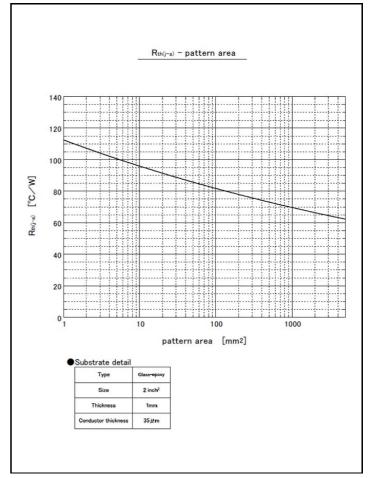








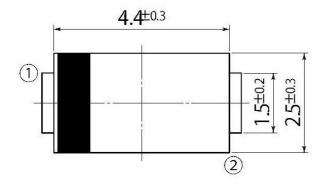


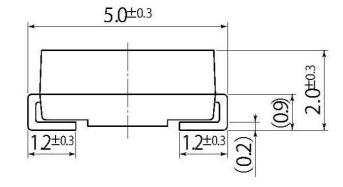


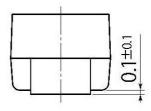
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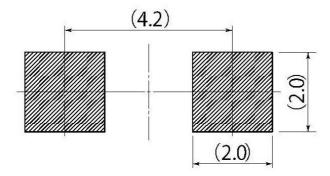
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JEDEC Code	DO-214AC	
JEITA Code	-	
House Name	1F	









Referential Soldering Pad

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

Notes

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