

D1FT4A

Schottky Barrier Diodes 40V, 3A

Feature

- Small SMD
- · High Recovery Speed
- Tj=175°C
- Ultra low IR
- · Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 1F

Package (JEDEC Code): DO-214AC



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 175	°C
Junction temperature	Tj		-55 to 175	°C
Repetitive peak reverse voltage	V_{RRM}		40	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, TI=127°C	3	Α
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C *	2.2	Α
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	1.6	Α
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	90	Α

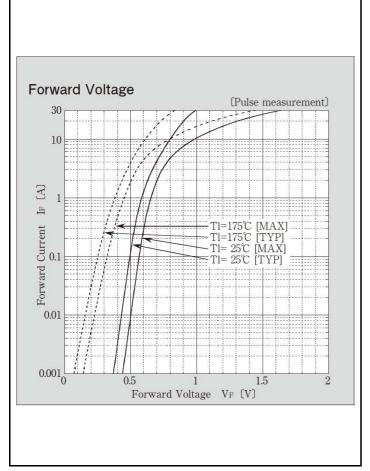
^{* :} See the original Specifications

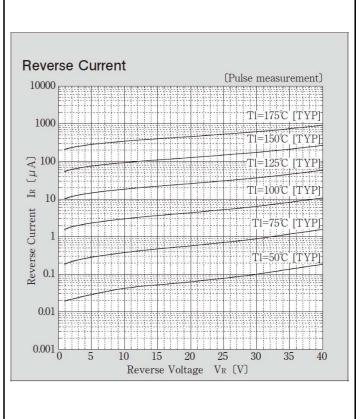
Electrical Characteristics (unless otherwise specified : TI=25°C)

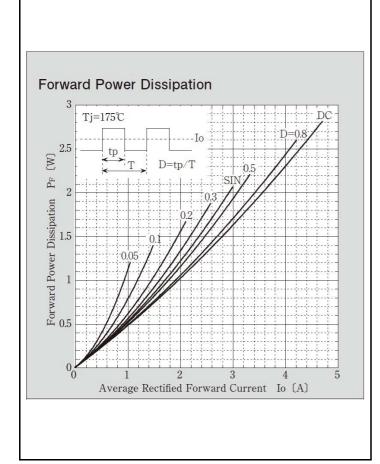
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Ome
Forward voltage	V _F	IF=3A, Pulse measurement			0.74	V
Forward voltage	V _F	IF=1A, Pulse measurement			0.66	V
Reverse current	I _R	VR=40V, Pulse measurement			0.008	mA
Total capacitance	Ct	f=1MHz, VR=10V		93		pF
Thermal resistance	Rth(j-l)	Junction to lead			23	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On alumina substrate *			108	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			157	°C/W

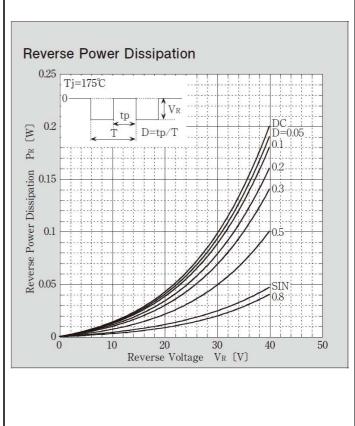
^{*} :See the original Specifications

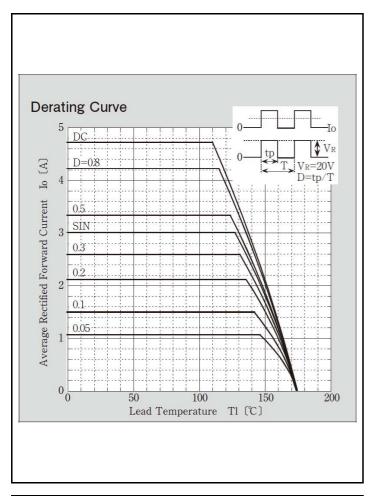
CHARACTERISTIC DIAGRAMS

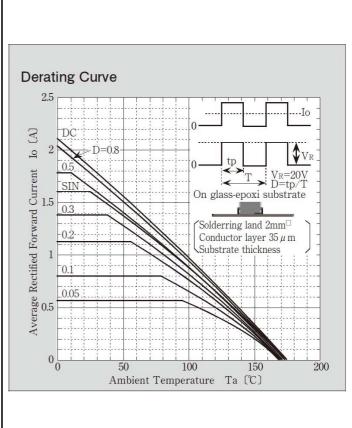


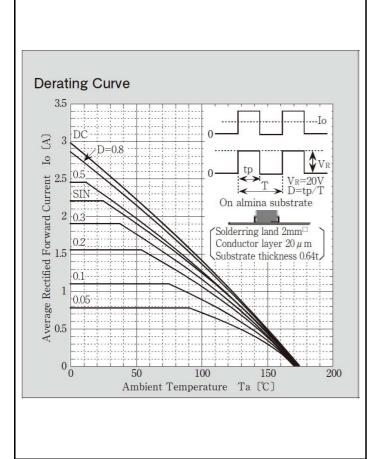


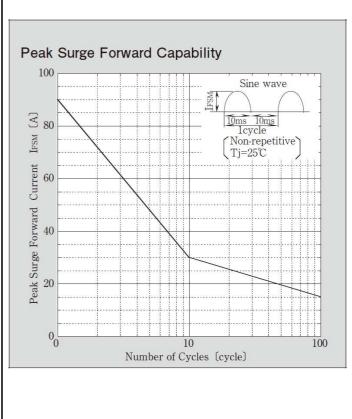


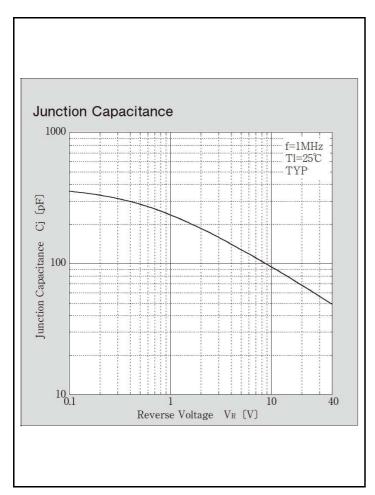


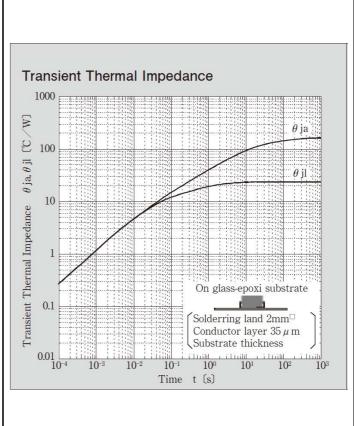


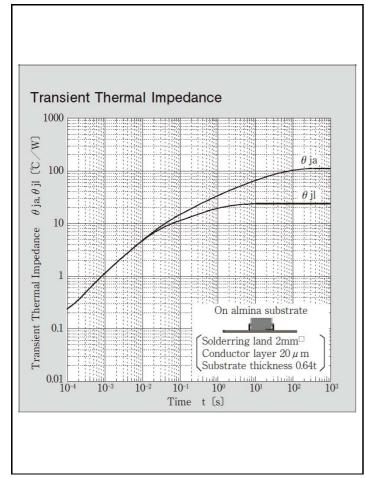








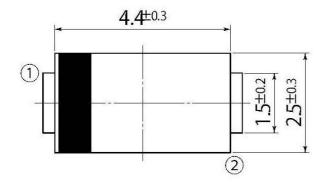


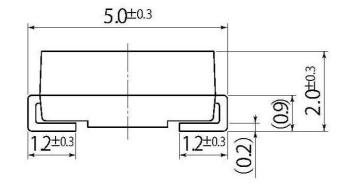


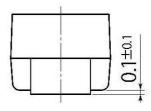
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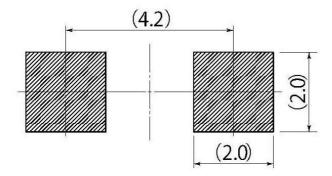
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JEDEC Code	DO-214AC		
JEITA Code	-		
House Name	1F, CF		









Referential Soldering Pad

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

Notes

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