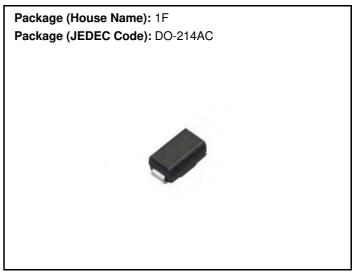
D1FT4A

Schottky Barrier Diodes 40V, 3A

Feature

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

OUTLINE



Equivalent circuit

Absolute Maximum Ratings (unless otherwise specified : TI=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	А
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C *	2.2	А
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	1.6	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	90	А

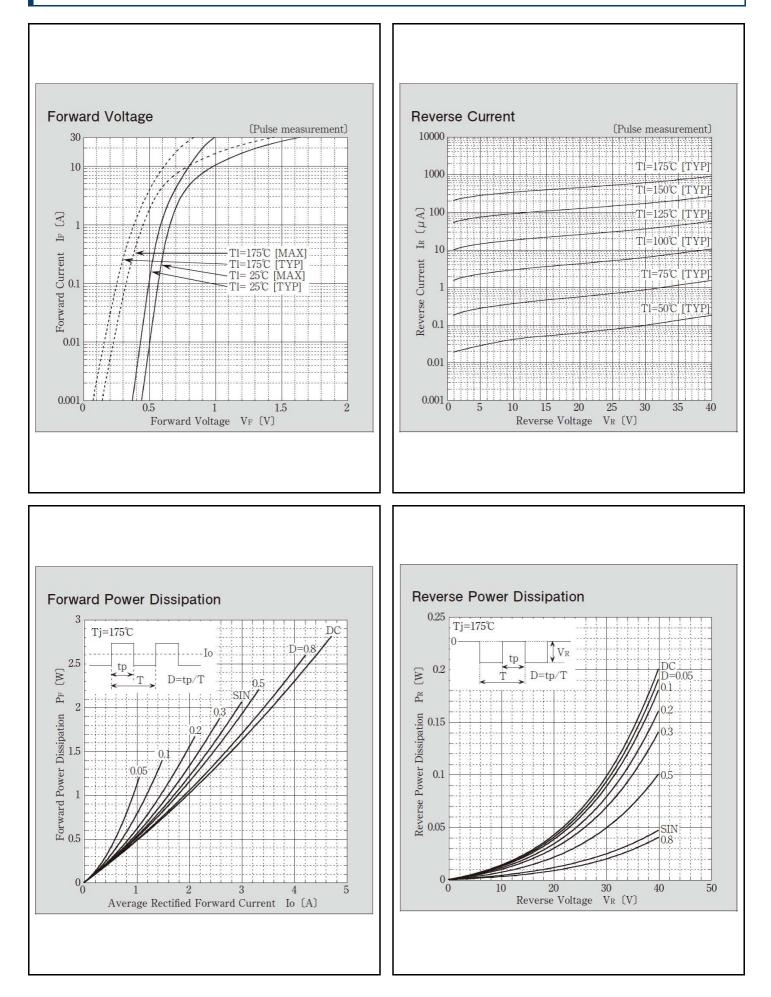
* : See the original Specifications

Electrical Characteristics	(unless otherwise specified : TI=25°C)
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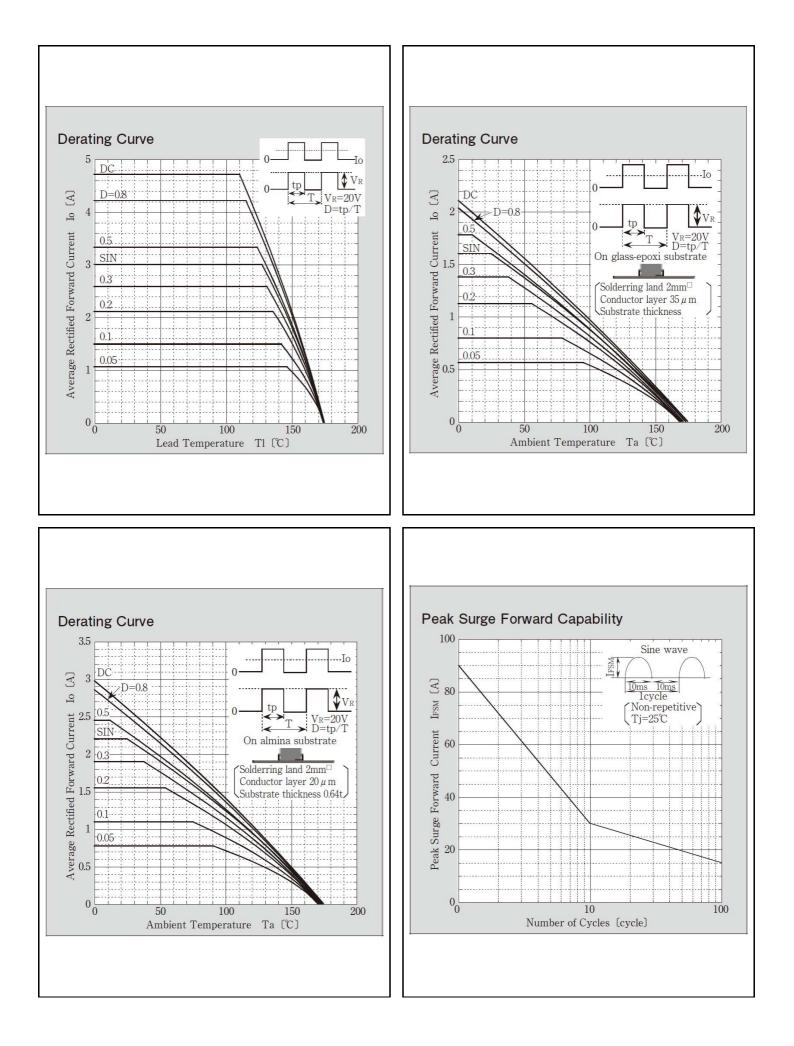
ltem	Symbol	Conditions	Ratings			Unit
			MIN	ТҮР	MAX	Onit
Forward voltage	V _F	IF=3A, Pulse measurement			0.74	V
Forward voltage	V _F	IF=1A, Pulse measurement			0.66	V
Reverse current	I _R	VR=40V, Pulse measurement			0.008	mA
Total capacitance	Ct	f=1MHz, VR=10V		93		pF
Thermal resistance	Rth(j-l)	Junction 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

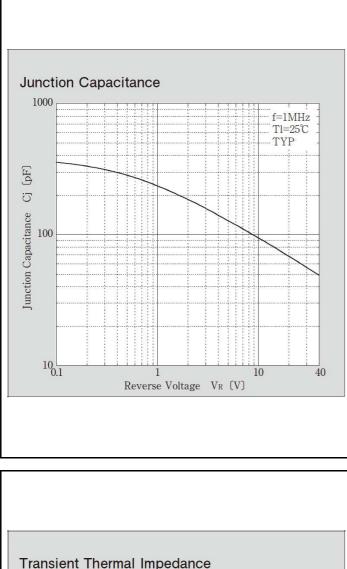
* :See the original Specifications

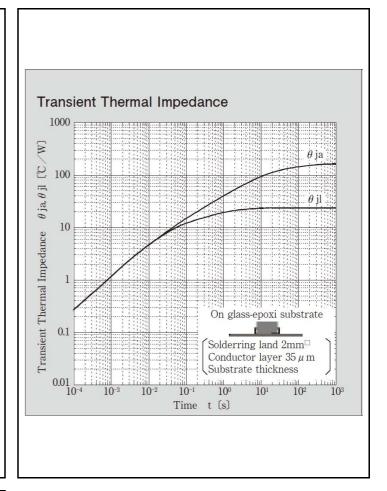
CHARACTERISTIC DIAGRAMS

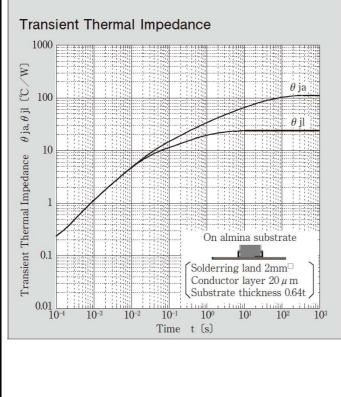


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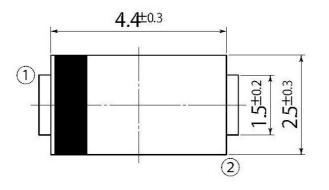


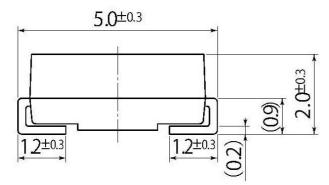


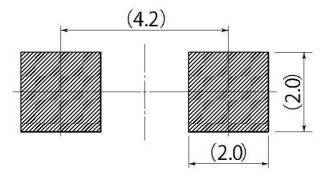
unit:mm

scale: 10/1

B3	JEDEC Code	DO-214AC		
	JEITA Code	(<u>—</u>)		
	House Name	1F		

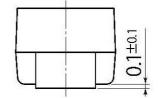






Referential Soldering Pad

Optimize soldering pad to the board design and soldering condition.



Notes

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[Special applications]

Transportation equipment (vehicles, ships, etc.), trunk-line communication equipment, traffic signal control systems, antidisaster/crime systems, safety equipment, medical equipment, etc.

[Specific applications]

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