

D1FS4

Schottky Barrier Diodes 40V, 1.1A

Feature

- Small SMD
- · High Recovery Speed
- Low V_F
- · Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

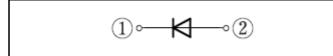
OUTLINE

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 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	V_{RRM}		40	V
Repetitive peak surge reverse voltage	V _{RRSM}	Pulse width 0.5ms, duty=1/40	45	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=51°C	1.1	А
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=44°C	0.85	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=125°C	30	А
Repetitive peak surge reverse power	P _{RRSM}	Pulse width 10μs, Tj=25°C	60	W

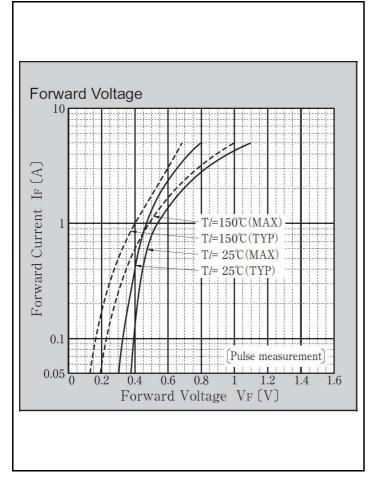
^{*} :See the original Specifications

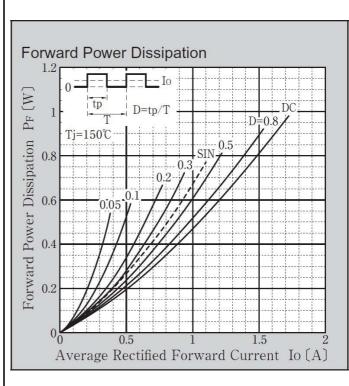
Electrical Characteristics (unless otherwise specified : TI=25°C)

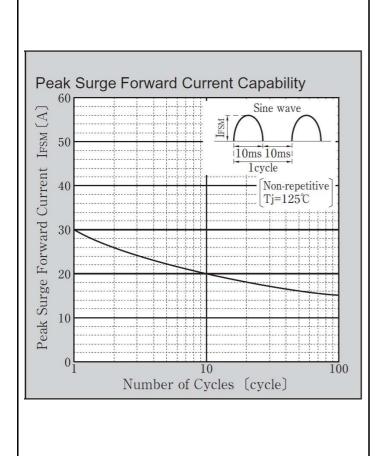
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	O.I.I.
Forward voltage	V _F	IF=1.1A, Pulse measurement			0.55	V
Reverse current	I _R	VR=40V, Pulse measurement			1	mA
Total capacitance	Ct	f=1MHz, VR=10V		65		pF
Thermal resistance	Rth(j-l)	Junction to lead			23	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On alumina substrate			108	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate			157	°C/W

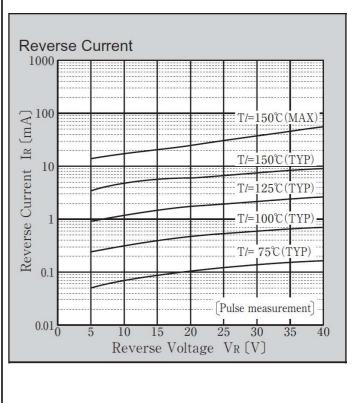
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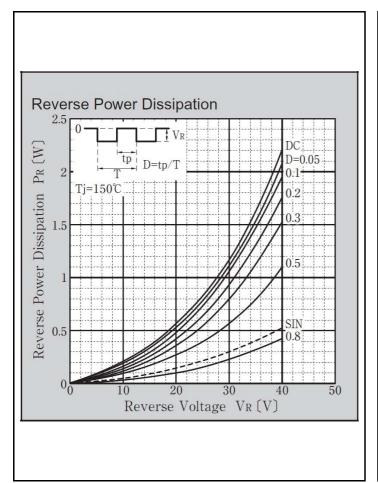
CHARACTERISTIC DIAGRAMS

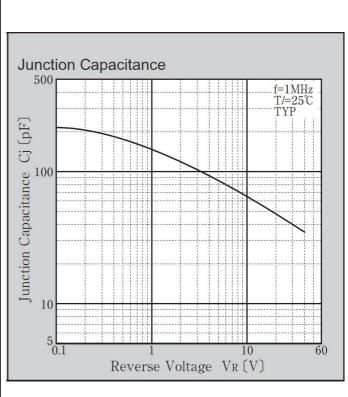


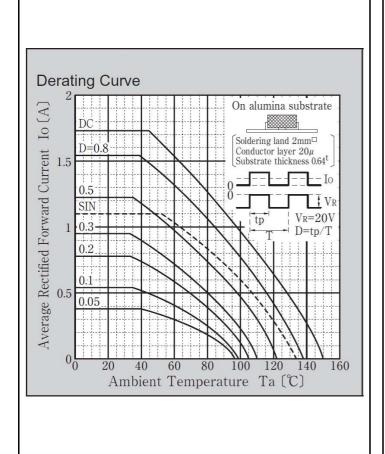


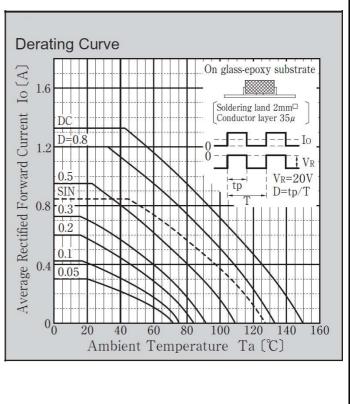


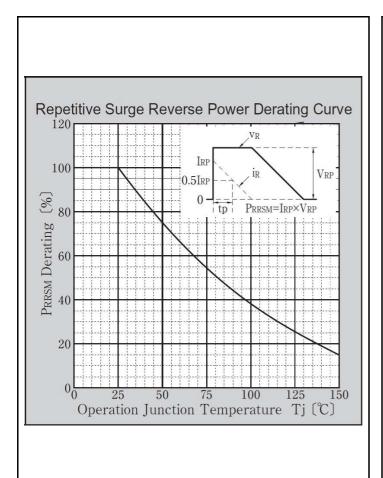


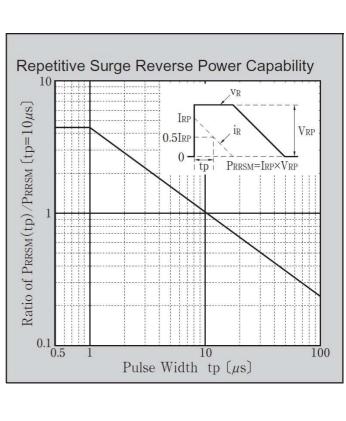








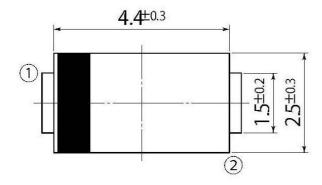


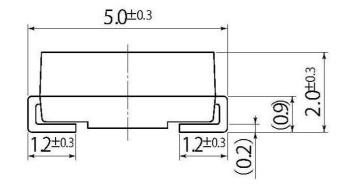


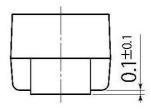
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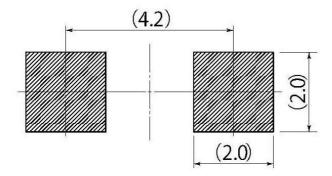
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JEDEC Code	DO-214AC
JEITA Code	-
House Name	1F, CF









Referential Soldering Pad

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

Notes

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(Special applications)

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