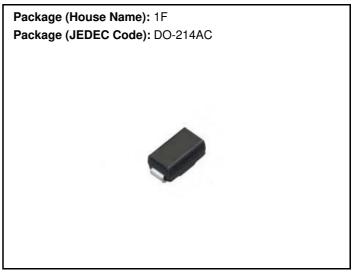
D1FM3

Schottky Barrier Diodes 30V, 5A

Feature

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

OUTLINE



Equivalent circuit

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

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	V _{RRM}		30	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=83°C *	5	A
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	3	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	90	A

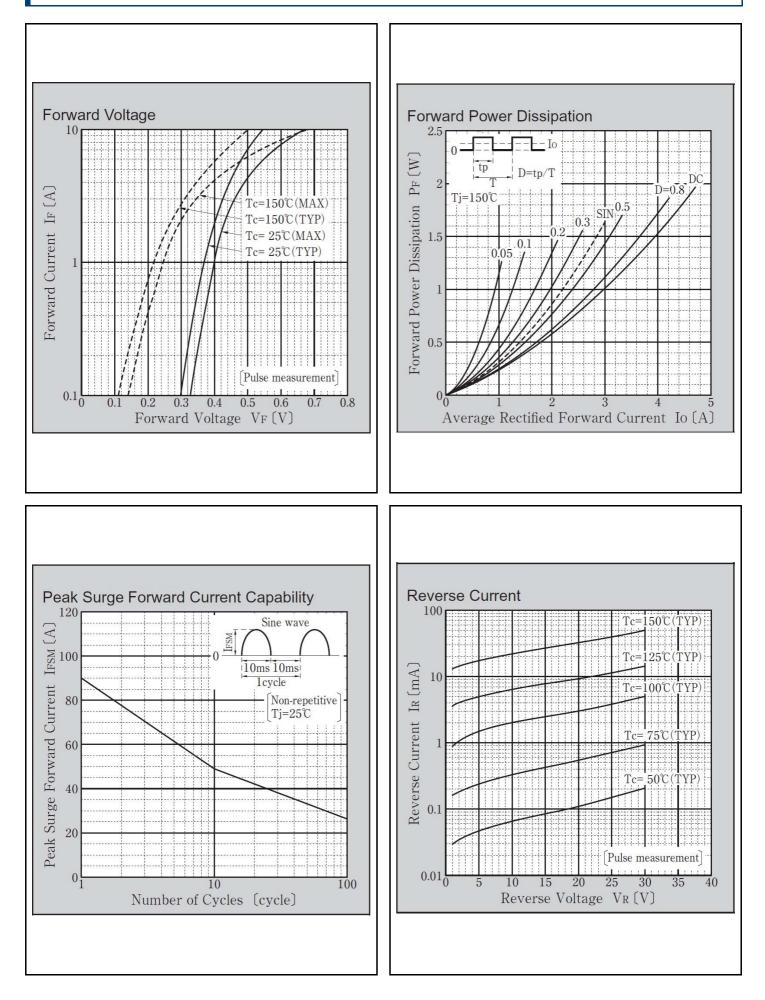
* : See the original Specifications

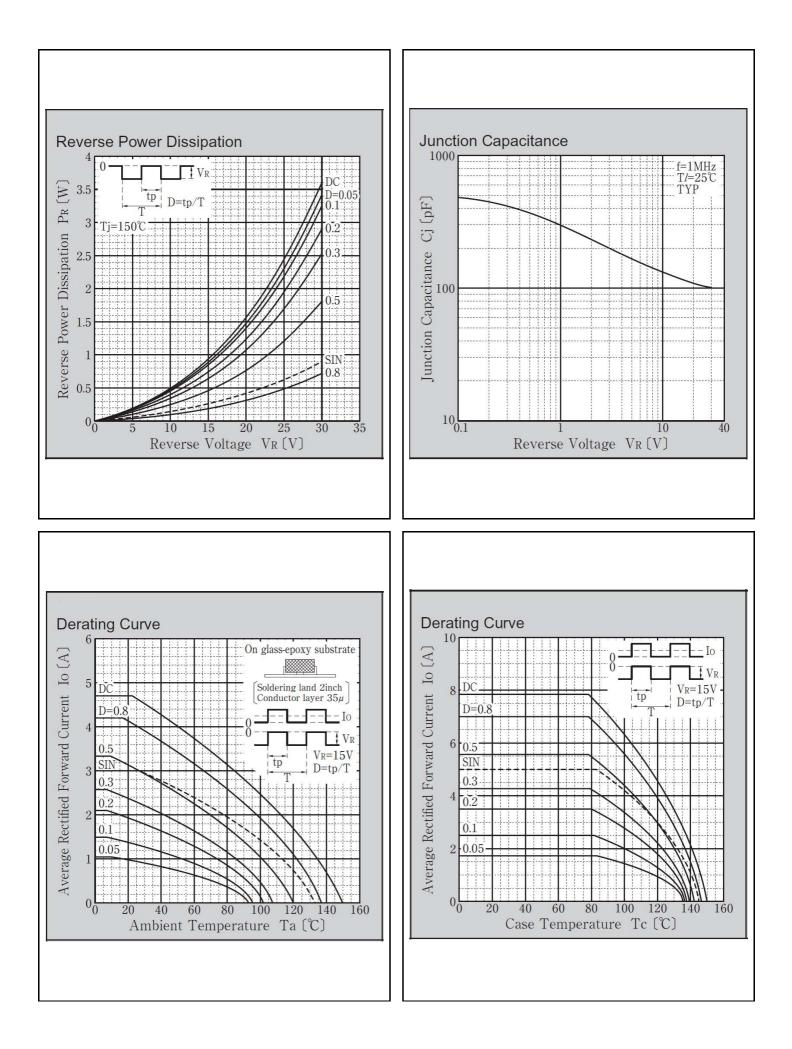
Electrical Characteristics (unles	ss otherwise specified : Tc=25°C)
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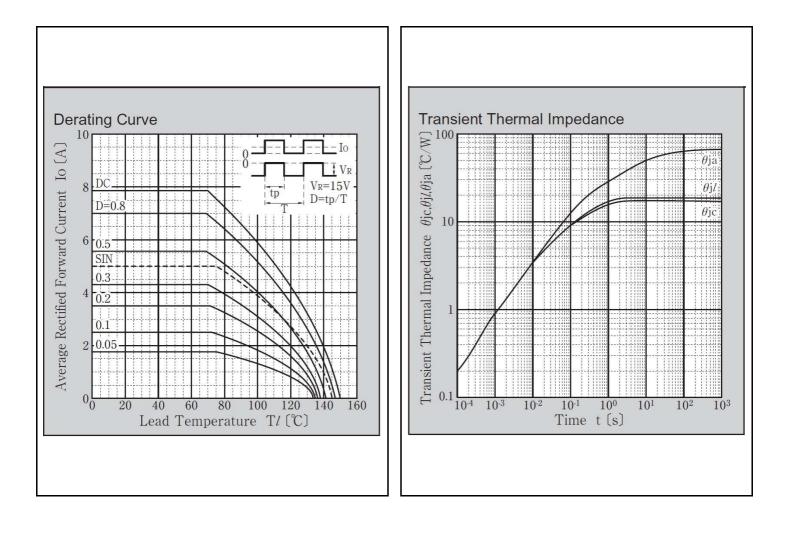
Item	Symbol	Conditions	Ratings			Unit
	Symbol		MIN	ТҮР	MAX	Onit
Forward voltage	V _F	IF=3.0A, Pulse measurement			0.46	V
Forward voltage	V _F	IF=1.0A, Pulse measurement			0.4	V
Reverse current	I _R	VR=30V, Pulse measurement			0.1	mA
Total capacitance	Ct	f=1MHz, VR=10V		130		pF
Thermal resistance	Rth(j-c)	Junction to case *		16	°C/W	
Thermal resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate *		18	°C/W	
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate * 65		65	°C/W	

* :See the original Specifications

CHARACTERISTIC DIAGRAMS



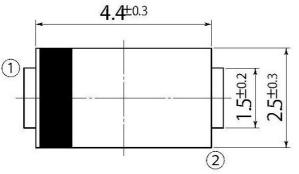


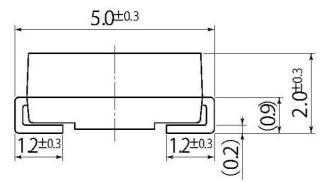


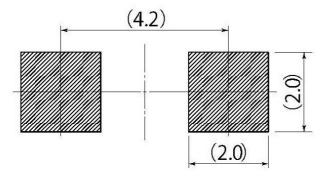
unit:mm

scale: 10/1

B3	JEDEC Code	DO-214AC		
	JEITA Code	-		
	House Name	1F		

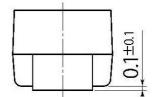








Optimize soldering pad to the board design and soldering condition.



Notes

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Computers, office automation and other office equipment, communication terminals, test and measurement equipment, audio/visual equipment, amusement equipment, consumer electronics, machine tools, personal electronic equipment, industrial equipment, etc.

[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]

Nuclear reactor control systems, aircraft, aerospace equipment, submarine repeaters, life support equipment and systems, etc.

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