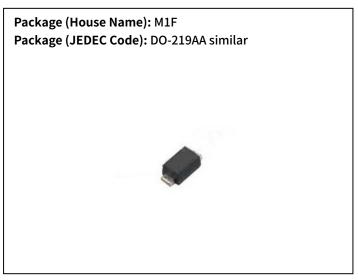
M1FM3

Schottky Barrier Diodes 30V, 3A

Feature

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

OUTLINE



Equivalent circuit



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

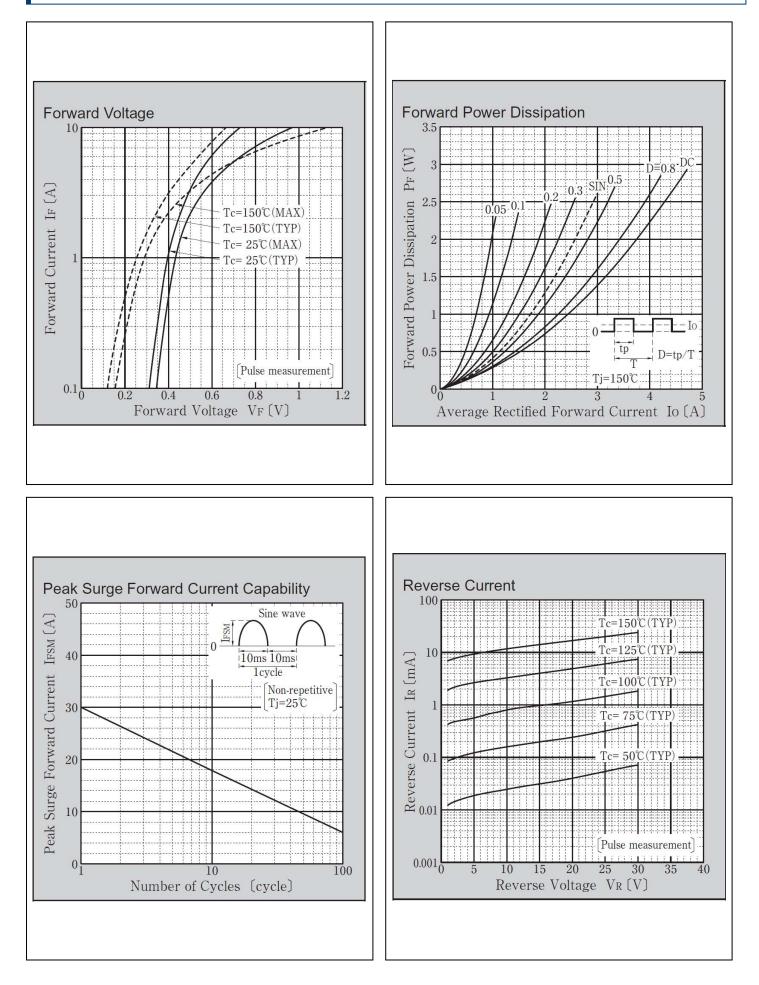
Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	V _{RRM}		30	v
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Tc=100°C	3	Α
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C	2.1	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	e, Peak 30	

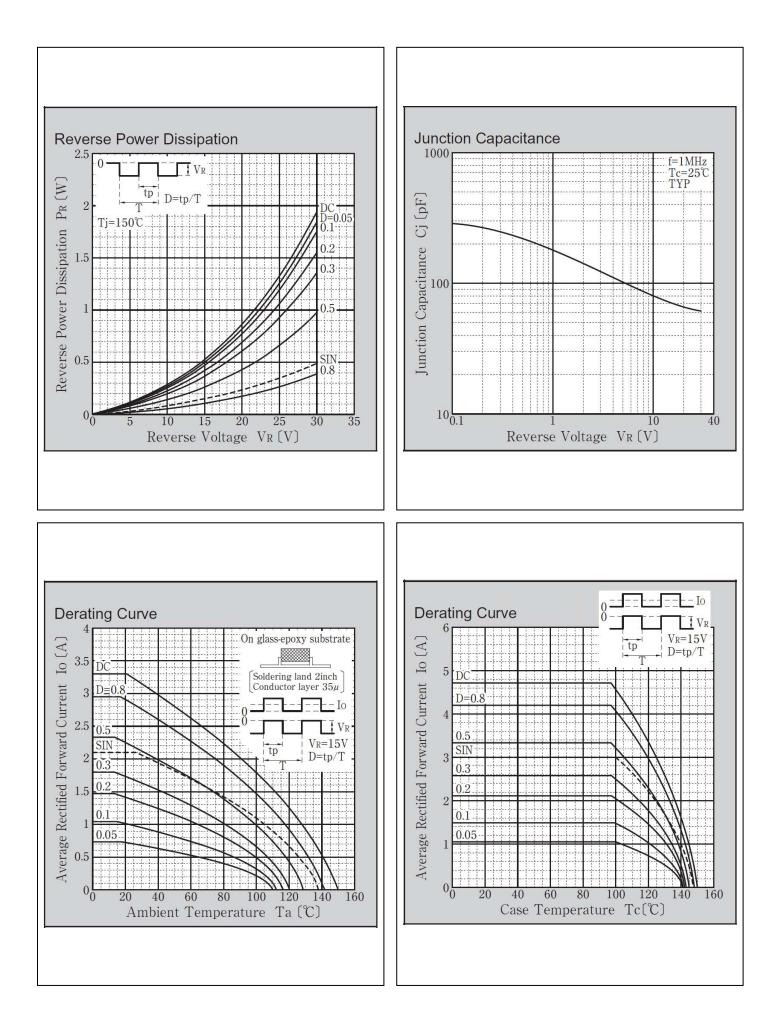
* : See the original Specifications

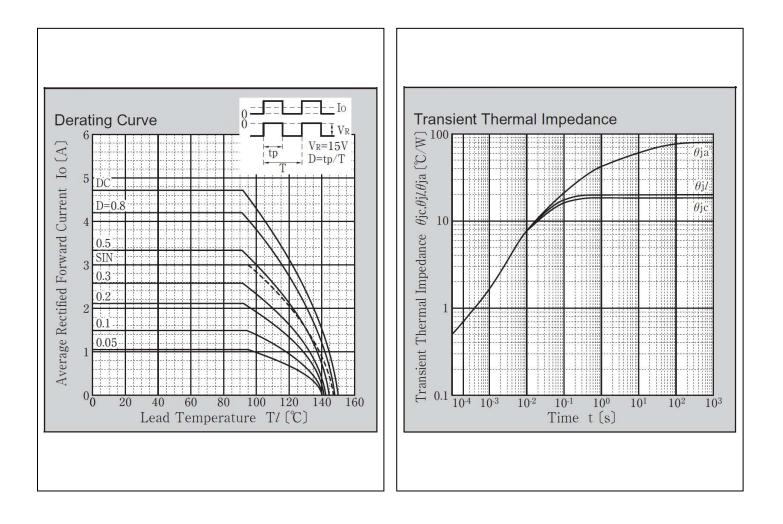
Electrical Characteristics (unless otherwise specified : Tc=25°C)									
ltem	Cumhal	Conditions	Ratings						
	Symbol		MIN	ТҮР	МАХ	Unit			
Forward voltage	V _F	IF=1.5A, Pulse measurement			0.46	V			
Forward voltage	V _F	IF=0.5A, Pulse measurement			0.4	V			
Reverse current	I _R	VR=30V, Pulse measurement			0.05	mA			
Total capacitance	Ct	f=1MHz, VR=10V		80		рF			
Thermal resistance	Rth(j-c)	Junction to case			18	°C/W			
Thermal resistance	Rth(j-l)	Junction to lead			20	°C/W			
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate			80	°C/W			

* : See the original Specifications

CHARACTERISTIC DIAGRAMS



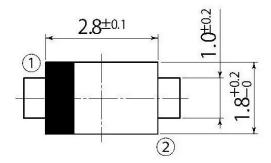


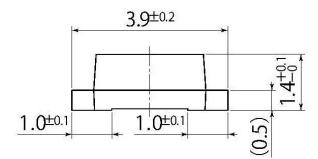


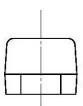
unit:mm

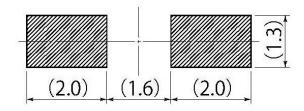
scale: 10/1

B2	JEDEC Code	DO-219AA similar		
	JEITA Code	-		
House Name		M1F		









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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