

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

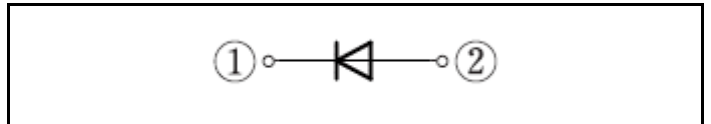
OUTLINE

Package (House Name): M1F

Package (JEDEC Code): DO-219AA similar



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : $T_c=25^{\circ}C$)

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T_{stg}		-55 to 150	$^{\circ}C$
Junction temperature	T_j		150	$^{\circ}C$
Repetitive peak reverse voltage	V_{RRM}		30	V
Average forward current	$I_F(AV)$	50Hz sine wave, Resistance load, $T_c=100^{\circ}C$	3	A
Average forward current	$I_F(AV)$	50Hz sine wave, Resistance load, On glass-epoxy substrate, $T_a=25^{\circ}C$	2.1	A
Surge forward current	I_{FSM}	50Hz sine wave, Non-repetitive, 1 cycle, Peak value, $T_j=25^{\circ}C$	30	A

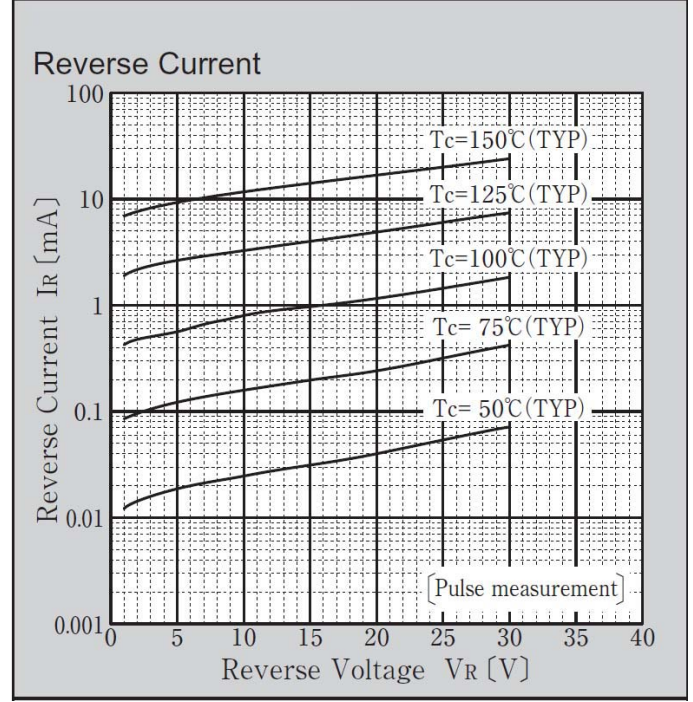
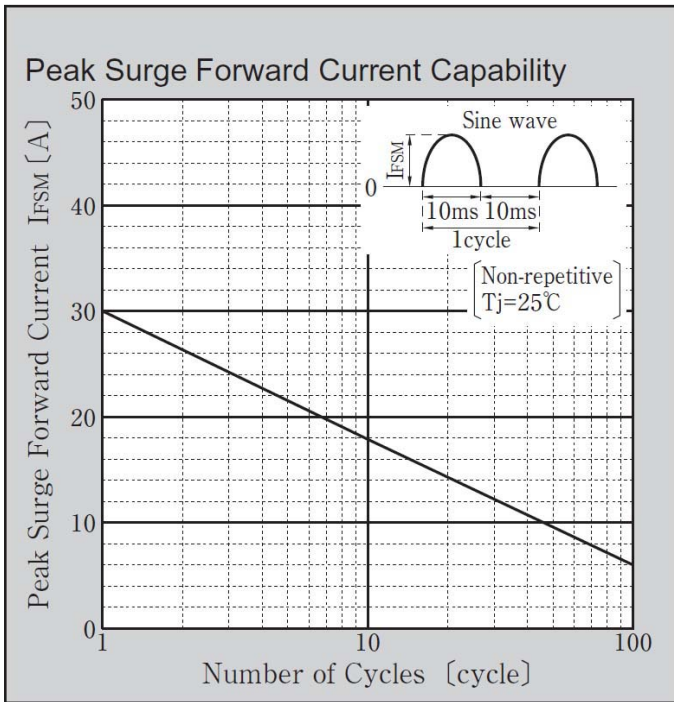
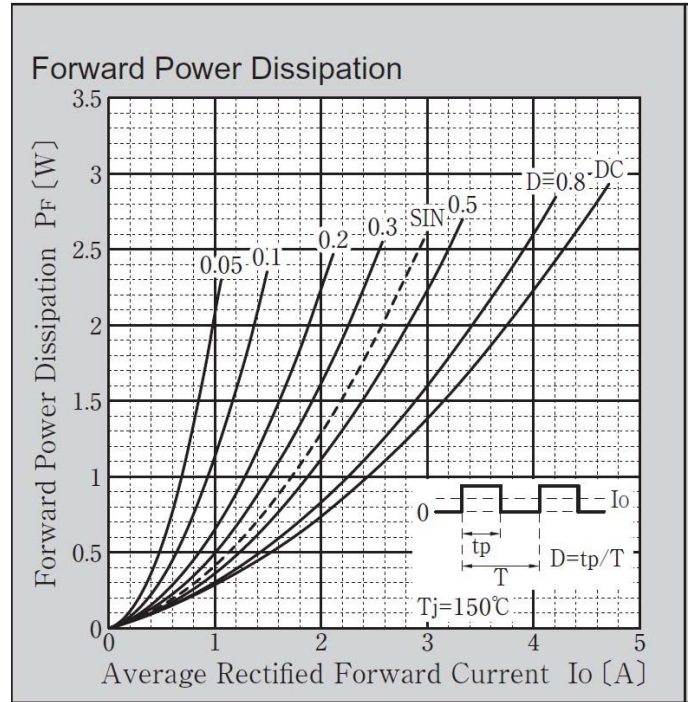
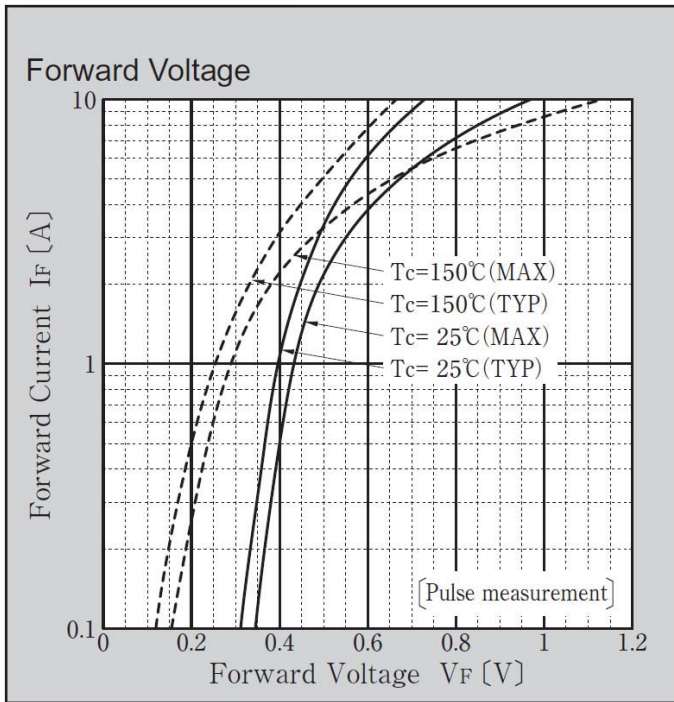
* :See the original Specifications

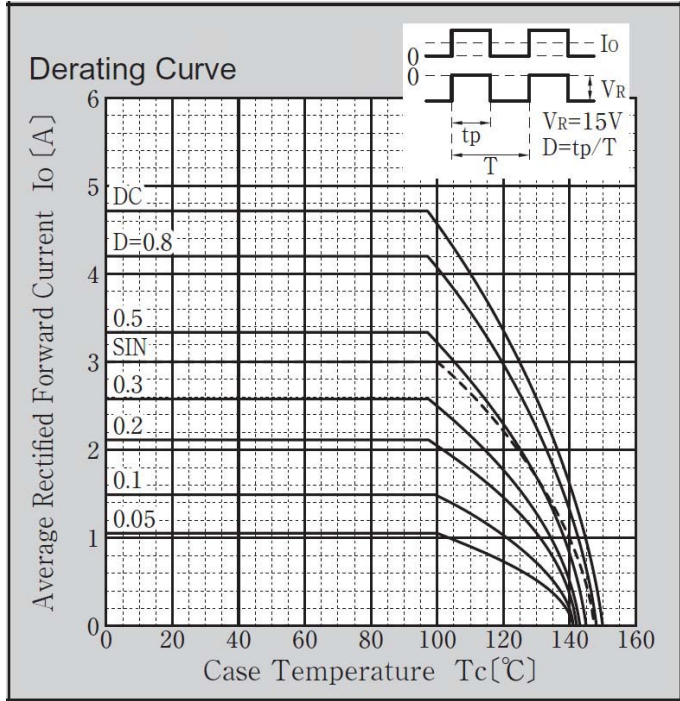
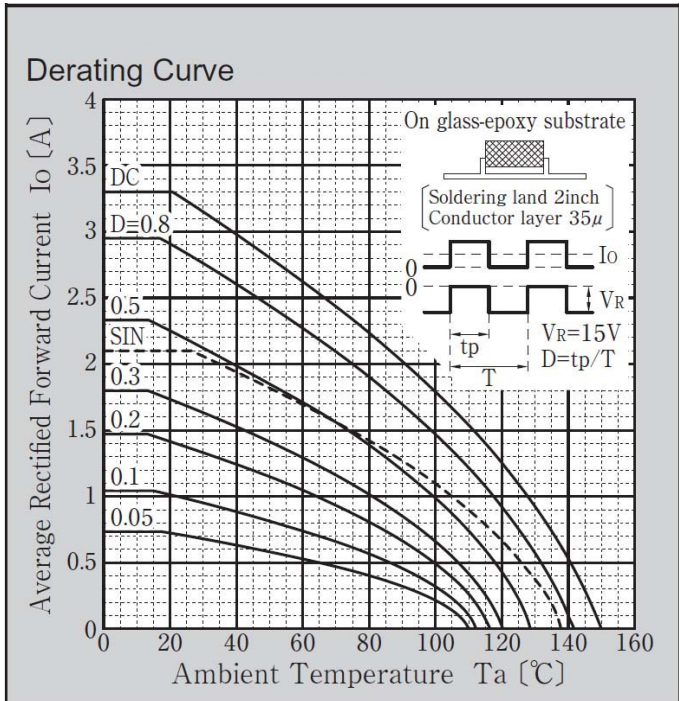
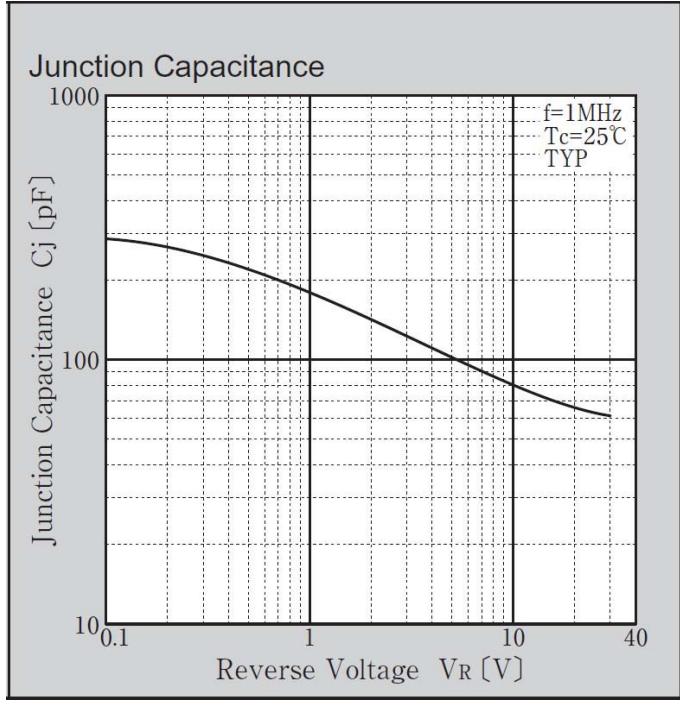
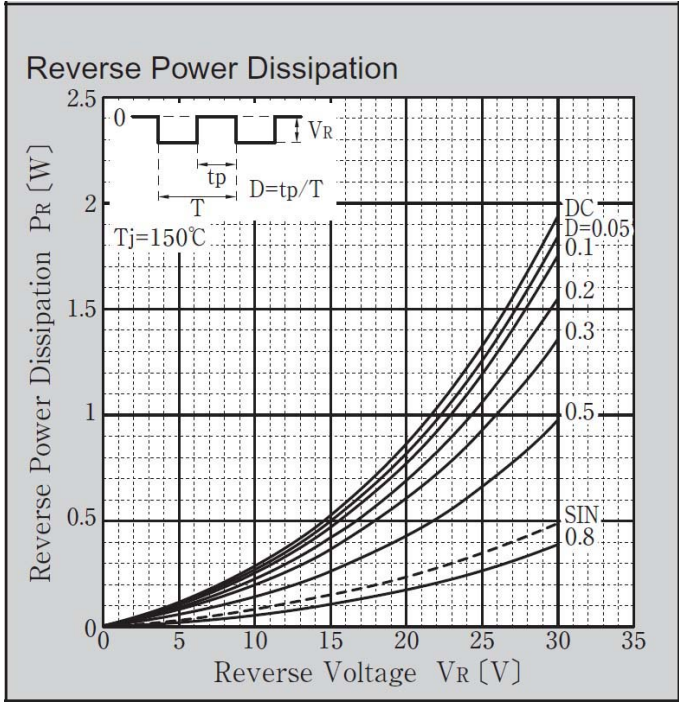
Electrical Characteristics (unless otherwise specified : Tc=25°C)

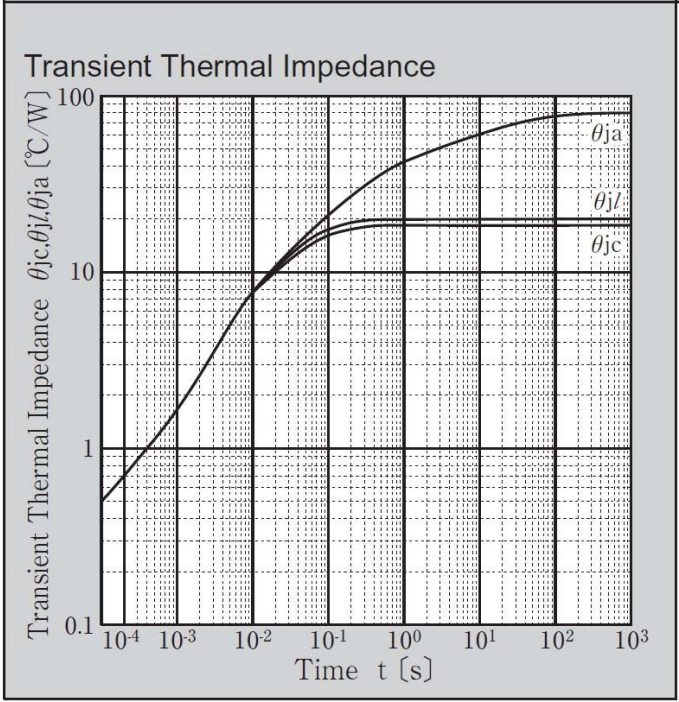
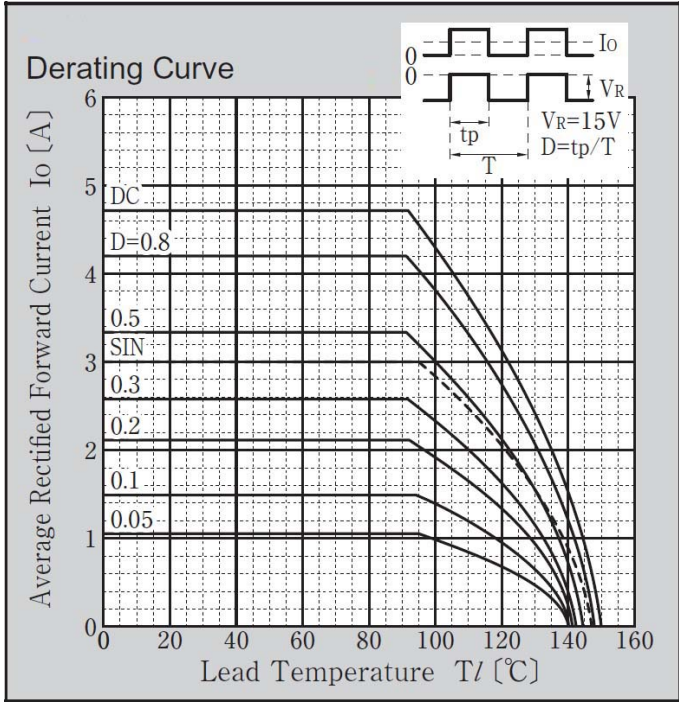
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	I _F =1.5A, Pulse measurement			0.46	V
Forward voltage	V _F	I _F =0.5A, Pulse measurement			0.4	V
Reverse current	I _R	V _R =30V, Pulse measurement			0.05	mA
Total capacitance	C _t	f=1MHz, V _R =10V		80		pF
Thermal resistance	R _{th(j-c)}	Junction to case			18	°C/W
Thermal resistance	R _{th(j-l)}	Junction to lead			20	°C/W
Thermal resistance	R _{th(j-a)}	Junction to ambient, On glass-epoxy substrate			80	°C/W

※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

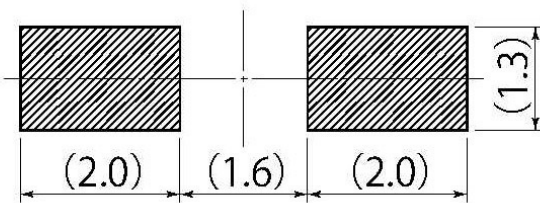
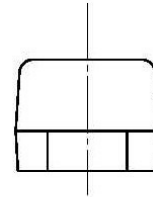
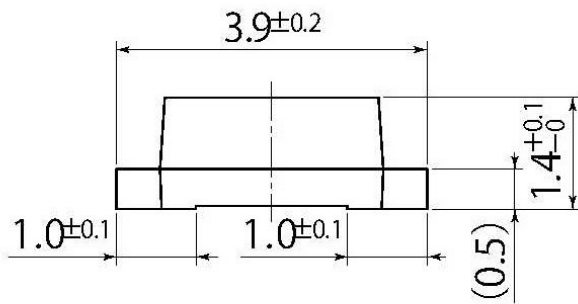
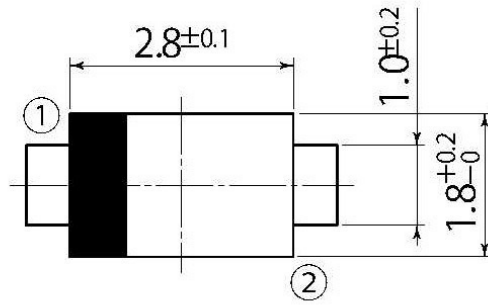






B2

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



Referential Soldering Pad

- Optimize soldering pad to the board design and soldering condition.

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