

### M1FH3

# **Schottky Barrier Diodes 30V, 1.7A**

#### **Feature**

- Small SMD
- · High Recovery Speed
- Low V<sub>F</sub>
- · Pb free terminal
- RoHS:Yes

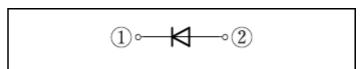
#### **OUTLINE**

Package (House Name): M1F

Package (JEDEC Code): DO-219AA similar



#### **Equivalent circuit**



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 125	°C
Junction temperature	Tj		-55 to 125	°C
Repetitive peak reverse voltage	$V_{RRM}$		30	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	1.7	А
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, Tc=105°C	1.5	Α
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, TI=103°C	1.5	Α
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	30	Α

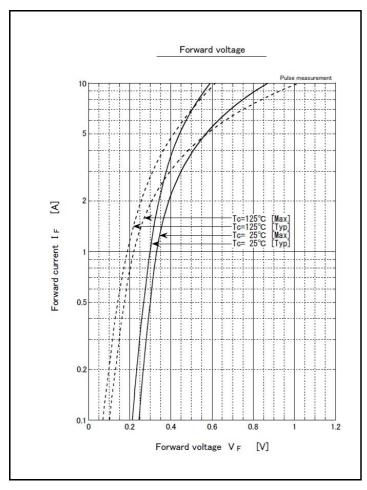
<sup>\* :</sup> See the original Specifications

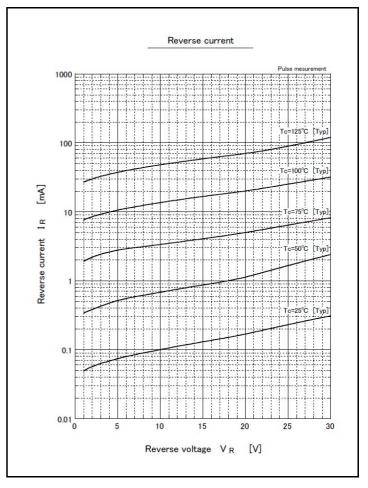
#### **Electrical Characteristics** (unless otherwise specified : Tc=25°C)

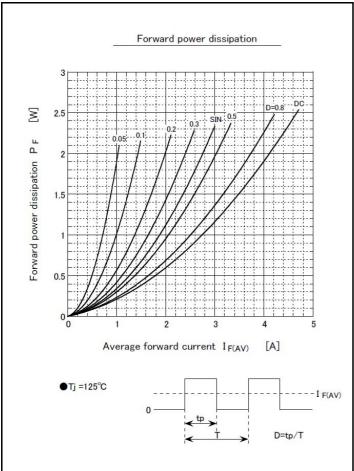
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Oiiit
Forward voltage	V <sub>F</sub>	IF=1.5A, Pulse measurement			0.36	V
Forward voltage	V <sub>F</sub>	IF=0.5A, Pulse measurement			0.3	V
Reverse current	I <sub>R</sub>	VR=30V, Pulse measurement			10	mA
Total capacitance	Ct	f=1MHz, VR=10V		80		pF
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

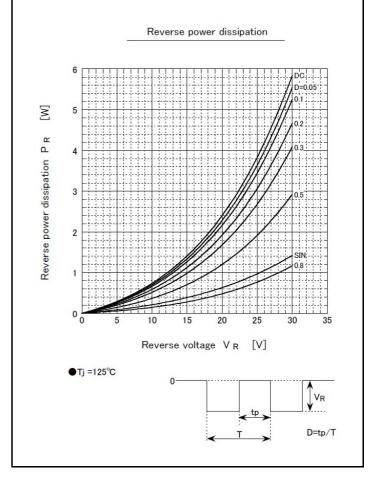
<sup>\*</sup> :See the original Specifications

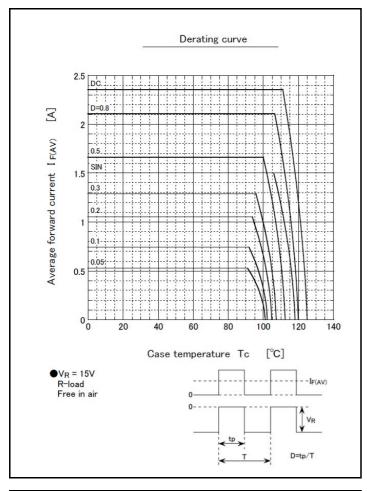
#### **CHARACTERISTIC DIAGRAMS**

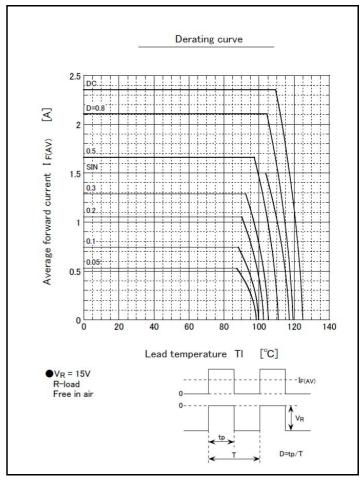


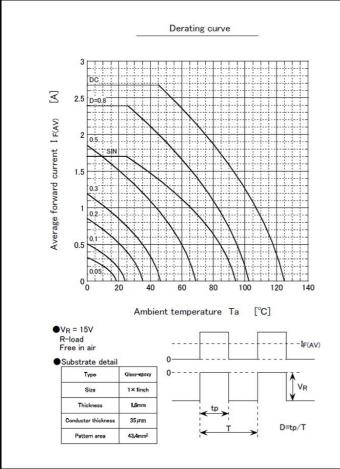


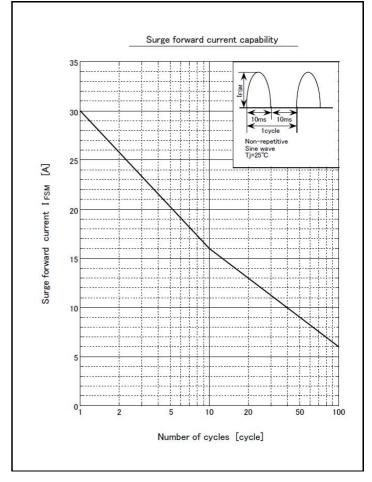


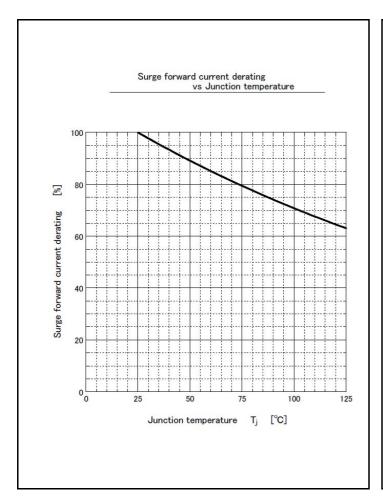


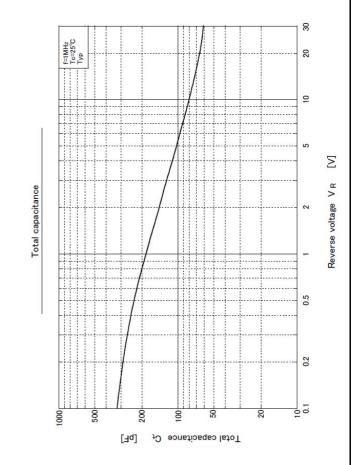


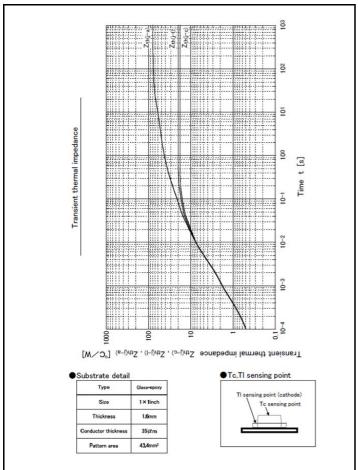








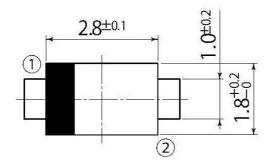


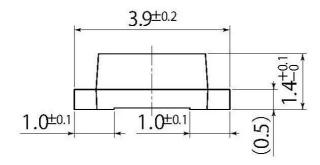


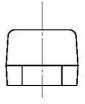
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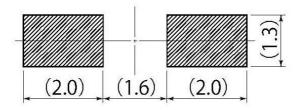
## **B2**

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]

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#### (Specific applications)

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