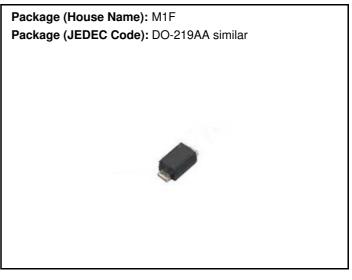
# M1F80

General Rectifying Diodes 800V, 1.0A

## Feature

- Small SMD
- · Available for automotive use
- Pb free terminal
- RoHS:Yes

## OUTLINE



## **Equivalent circuit**

## **Absolute Maximum Ratings** (unless otherwise specified : TI=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 <sub>RRM</sub>		800	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C *	1	A
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	0.64	А
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	25	А

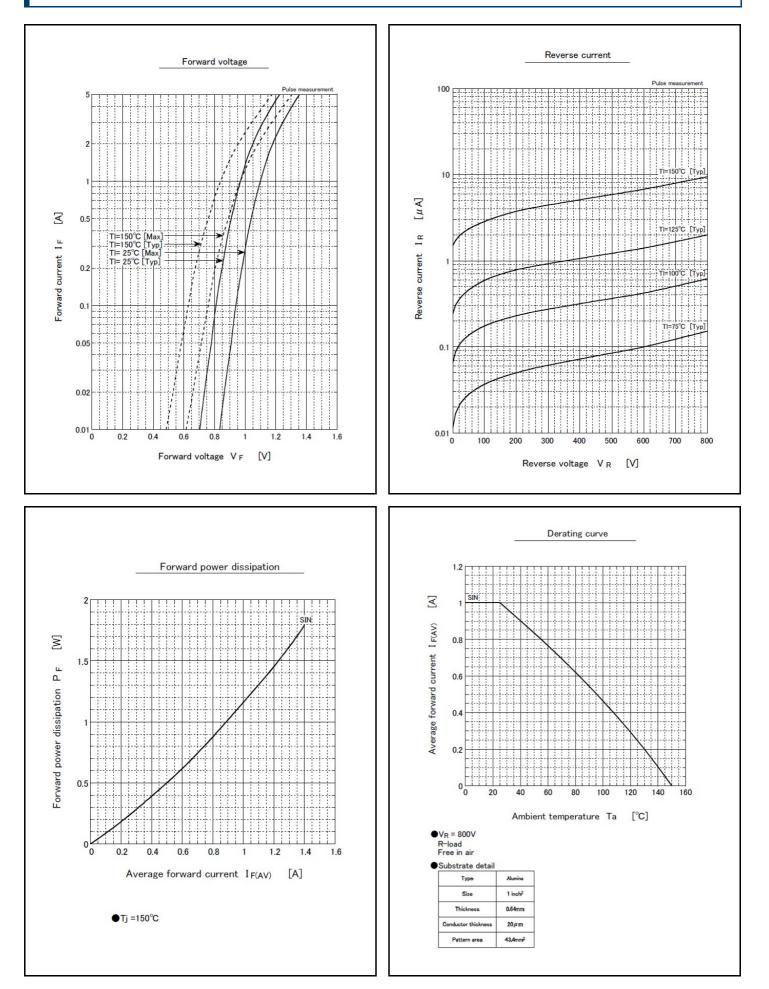
\* : See the original Specifications

<b>Electrical Characteristics</b>	(unless otherwise specified : TI=25°C)

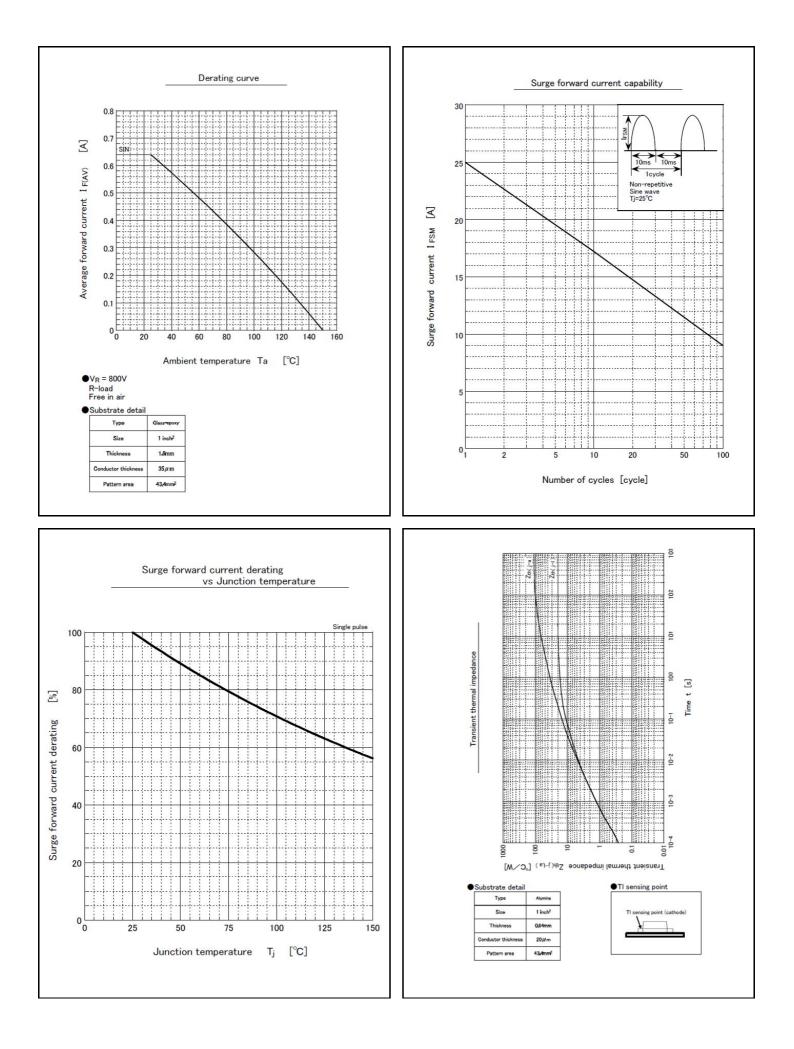
Item	Symbol	Conditions	Ratings			Unit
			MIN	ТҮР	MAX	Onit
Forward voltage	V <sub>F</sub>	IF=1A, Pulse measurement			1.1	V
Reverse current	I <sub>R</sub>	VR=800V, Pulse measurement			10	μA
Thermal resistance	Rth(j-l)	Junction to lead			20	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On alumina substrate *			108	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			186	°C/W

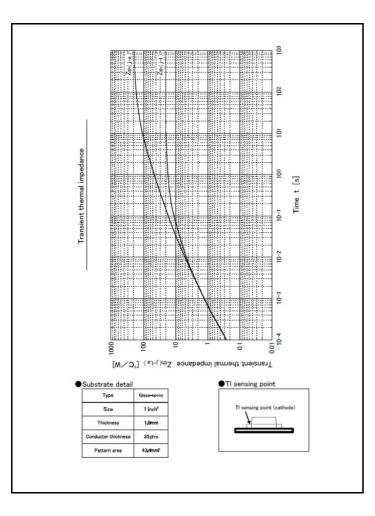
\*:See the original Specifications

## CHARACTERISTIC DIAGRAMS



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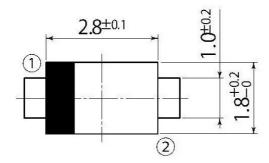


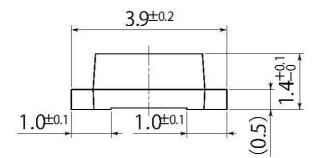


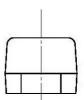
## unit:mm

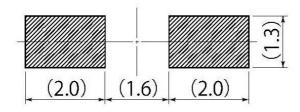
scale: 10/1

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











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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