

# M1F80

# General Rectifying Diodes 800V, 1.0A

### **Feature**

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

## **OUTLINE**

Package (House Name): M1F
Package (JEDEC Code): DO-219AA similar





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

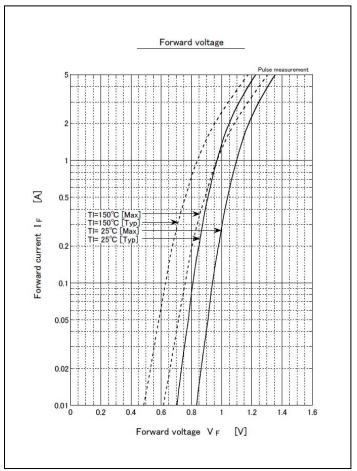
Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	V <sub>RRM</sub>		800	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C %	1	Α
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C ※	0.64	Α
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	25	Α

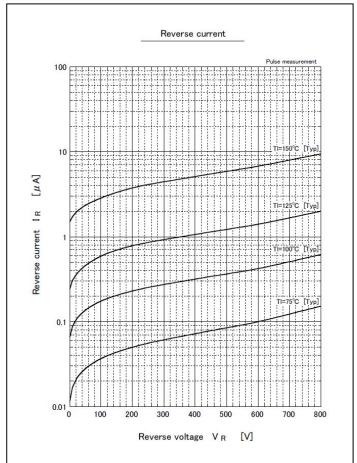
**※** ∶See the original Specifications

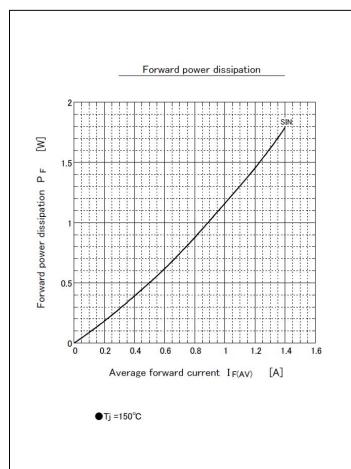
# **Electrical Characteristics** (unless otherwise specified: Tl=25°C)

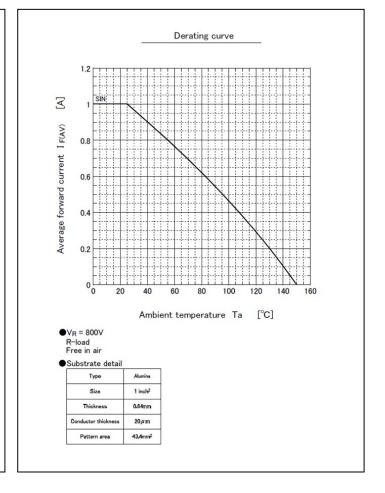
Item	Symbol	Conditions	Ratings			llm:t
			MIN	TYP	MAX	Unit
Forward voltage	$V_{F}$	IF=1A, Pulse measurement			1.1	V
Reverse current	I <sub>R</sub>	VR=800V, Pulse measurement			10	μΑ
Thermal resistance	Rth(j-l)	Junction to lead			20	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On alumina substrate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

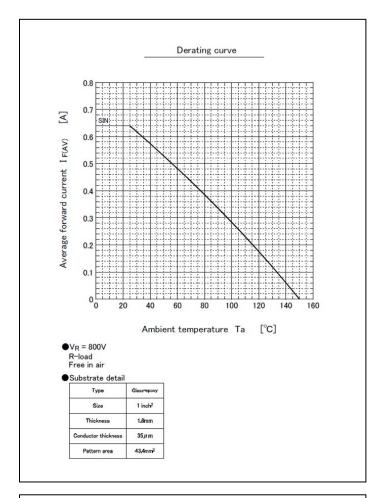
# **CHARACTERISTIC DIAGRAMS**

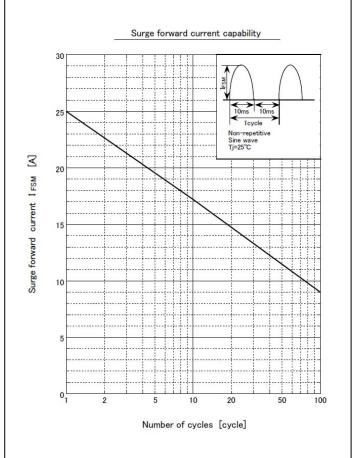


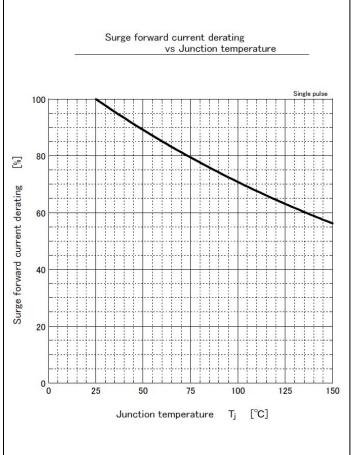


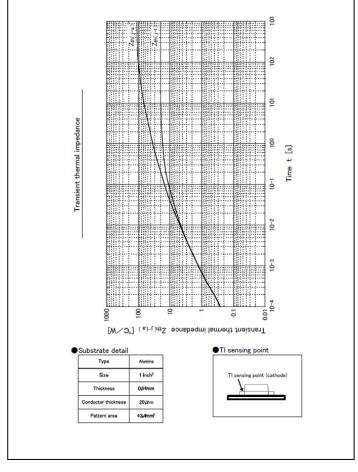


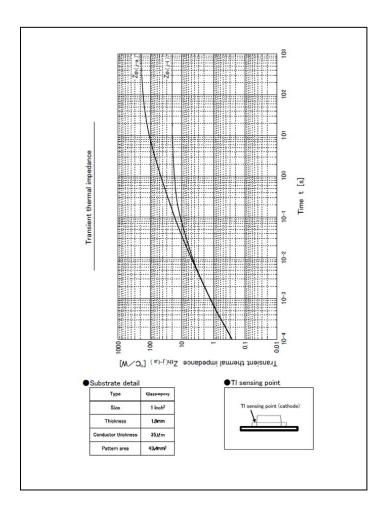








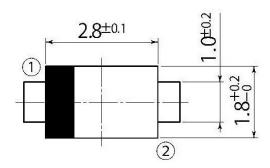


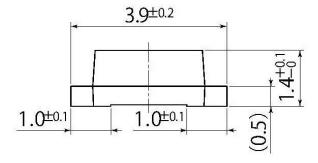


scale: 10/1

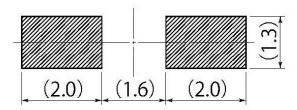
**B2** 

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]

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#### [Specific applications]

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