

M1FE40

General Rectifying Diodes 400V, 2.0A

Feature

- Small SMD
- · High ESD Capability
- 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: Tl=25°C)

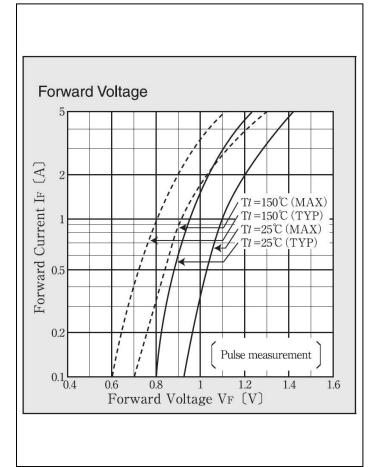
Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	V _{RRM}		400	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Tc=103°C **	2	Α
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=63°C %	1	Α
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	/cle peak 25	

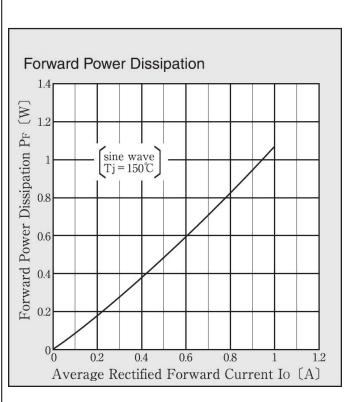
※ ∶See the original Specifications

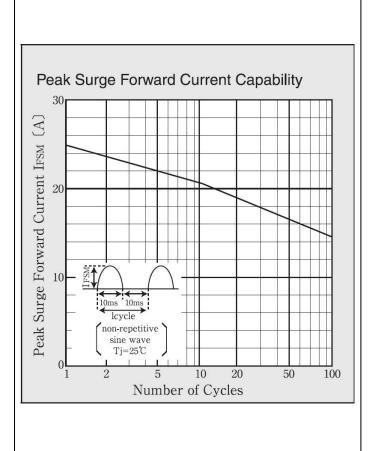
Electrical Characteristics (unless otherwise specified: Tl=25°C)

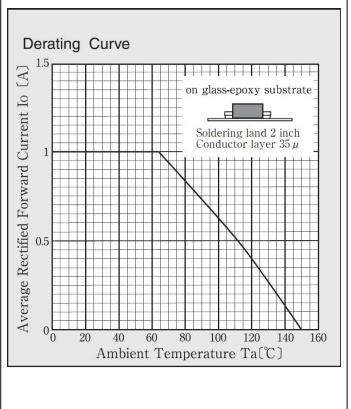
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Offic
Forward voltage	V_{F}	IF=1A, Pulse measurement			1.1	٧
Reverse current	I _R	VR=400V, Pulse measurement			10	μΑ
Thermal resistance	Rth(j-c)	Junction to case, On alumina substrate ※			18	°C/W
Thermal resistance	Rth(j-l)	Junction to lead			20	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			80	°C/W

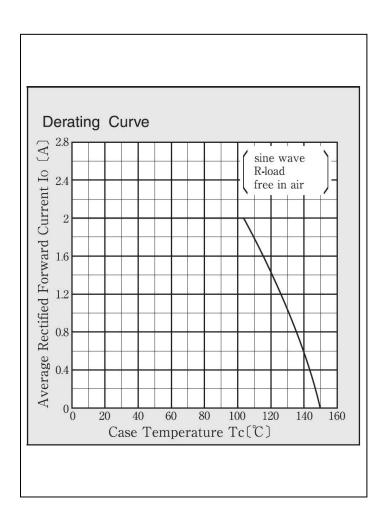
CHARACTERISTIC DIAGRAMS









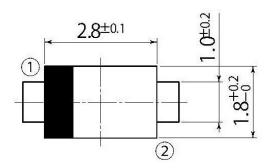


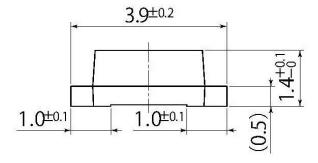
unit:mm

scale: 10/1

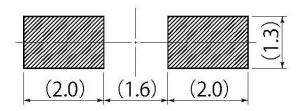
B2

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]

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[Specific applications]

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