

M3FE60

General Rectifying Diodes 600V, 3.0A

Feature

- · Small SMD
- · High ESD Capability
- · Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): M2F

Package (JEDEC Code): DO-214AA 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}		600	٧
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, TI=76°C	3	Α
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, TI=90°C	2.5	Α
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	1.3	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	90	А
Surge forward current	I _{FSM1}	tp=1ms, sine wave, Non-repetitive, peak value, Tj=25°C	230	Α

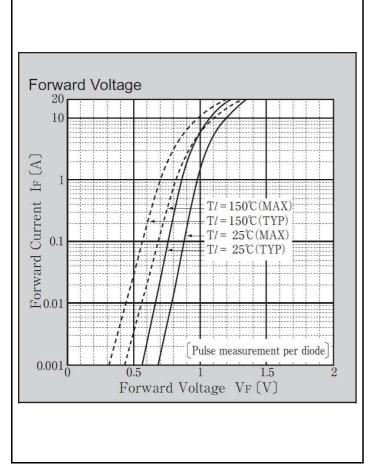
^{* :} See the original Specifications

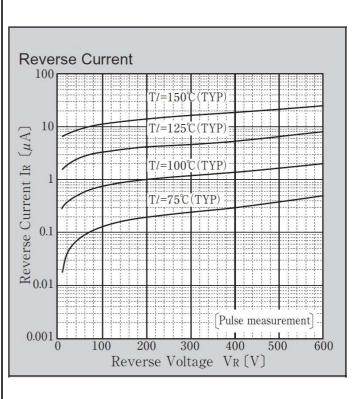
Electrical Characteristics (unless otherwise specified : TI=25°C)

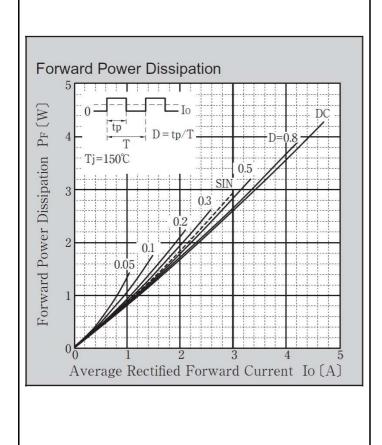
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Onne
Forward voltage	V _F	IF=3A, Pulse measurement			1.05	V
Reverse current	I _R	VR=600V, Pulse measurement			10	μΑ
Electro static dischange Capability	V _{ESD}	C=330pF, R=330Ω, Polarity±, Aerial discharge		25		kV
Thermal resistance	Rth(j-l)	Junction to lead			25	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			110	°C/W

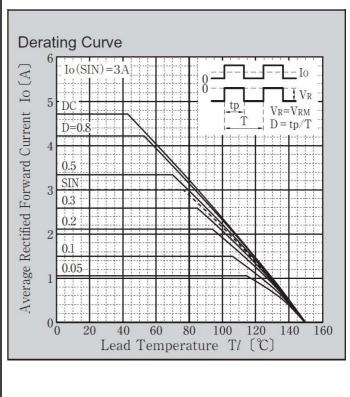
^{* :}See the original Specifications

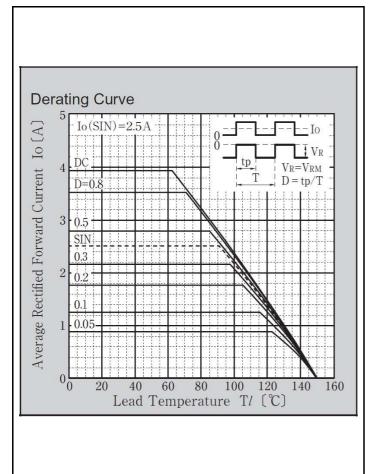
CHARACTERISTIC DIAGRAMS

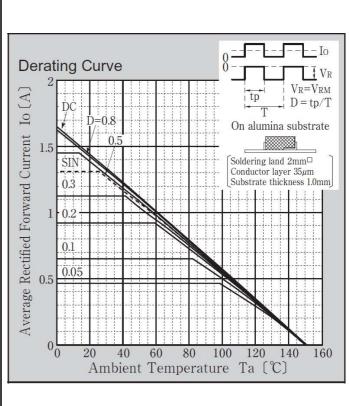


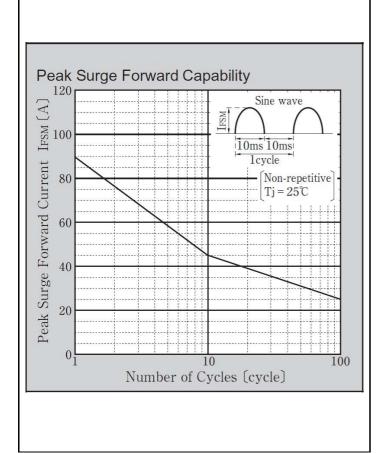


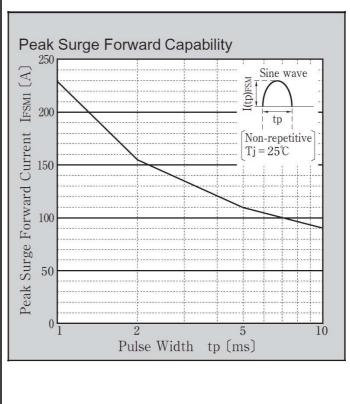


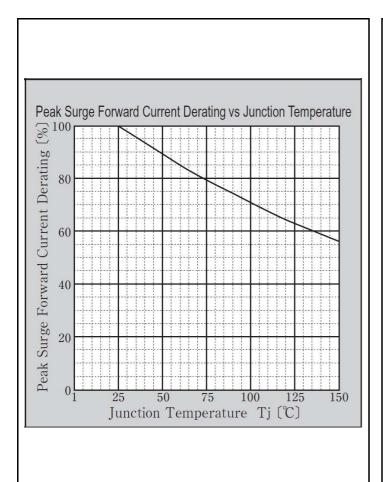


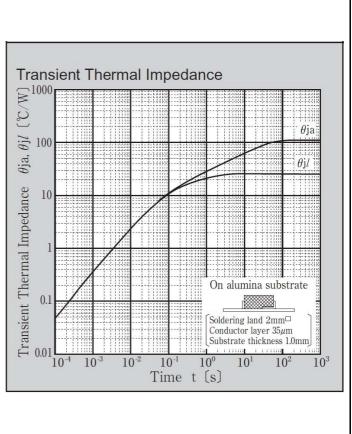










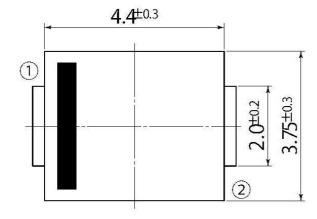


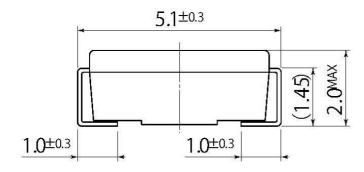
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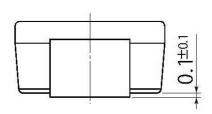
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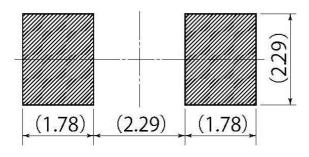
B6

JEDEC Code	DO-214AA similar		
JEITA Code	_		
House Name	M2F		









Referential Soldering Pad

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

Notes

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[Special applications]

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