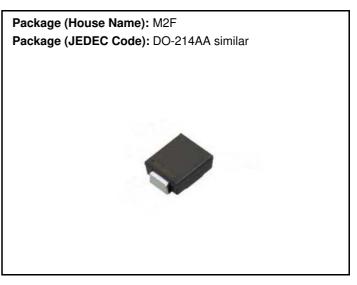
M3FE40

General Rectifying Diodes 400V, 3A

Feature

- Small SMD
- High ESD Capability
- · Based on AEC-Q101
- 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 _{RRM}		400	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, TI=76°C *	3	А
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=32°C *	1.2	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	75	А
Current squared time	l ² t	1ms≦tp<10ms, Tj=25°C	28	A ² s

* : See the original Specifications

Electrical Characteristics (unless otherwise specified : TI=25°C)					
ltem	Symbol	Conditions	MIN		

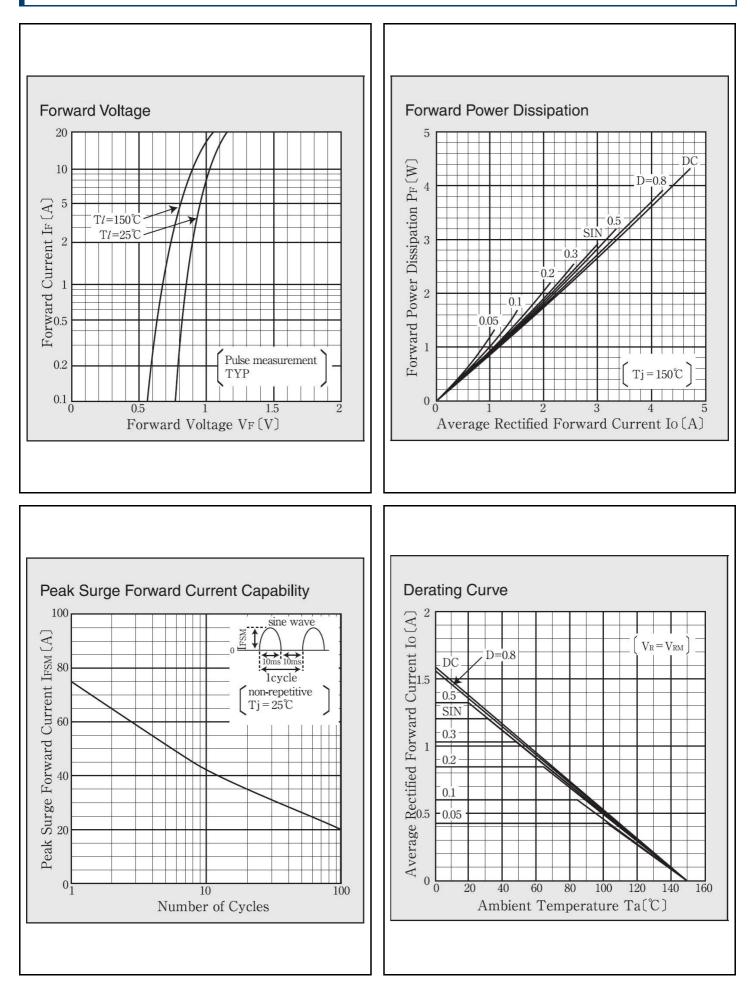
			MIN	ТҮР	MAX	
Forward voltage	V _F	IF=3A, Pulse measurement			1.1	V
Reverse current	I _R	VR=400V, Pulse measurement			10	μA
Electro static dischange Capability	V _{ESD}	C=150pF, R=150Ω, Polarity±, Aerial discharge 30			kV	
Thermal resistance	Rth(j-c)	Junction to case, On glass-epoxy substrate *		25	°C/W	
Thermal resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate *		25	°C/W	
Thermal resistance	Rth(j-a)) Junction to ambient, On glass-epoxy substrate *		110	°C/W	

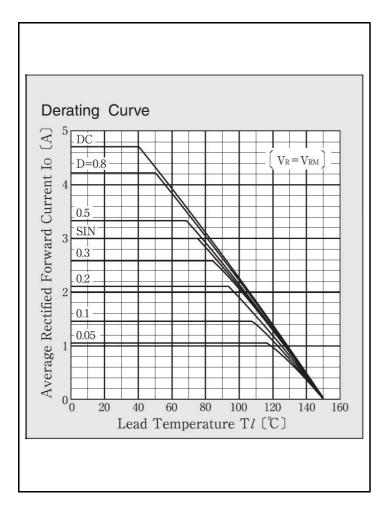
* : See the original Specifications

Ratings

Unit

CHARACTERISTIC DIAGRAMS

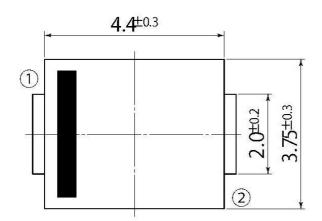


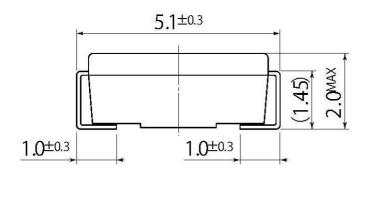


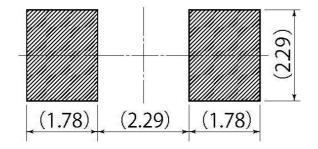
unit:mm

scale: 10/1

B6	JEDEC Code	DO-214AA similar
	JEITA Code	
	House Name	M2F

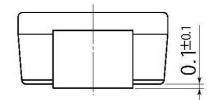






Referential Soldering Pad

Optimize soldering pad to the board design and soldering condition.



Notes

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[Special applications]

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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