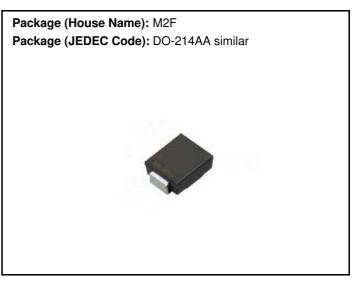
# **M3FE40**

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 <sub>RRM</sub>		400	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, TI=76°C *	3	А
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=32°C *	1.2	А
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	75	А
Current squared time	l <sup>2</sup> t	1ms≦tp<10ms, Tj=25°C	28	A <sup>2</sup> s

\* : See the original Specifications

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

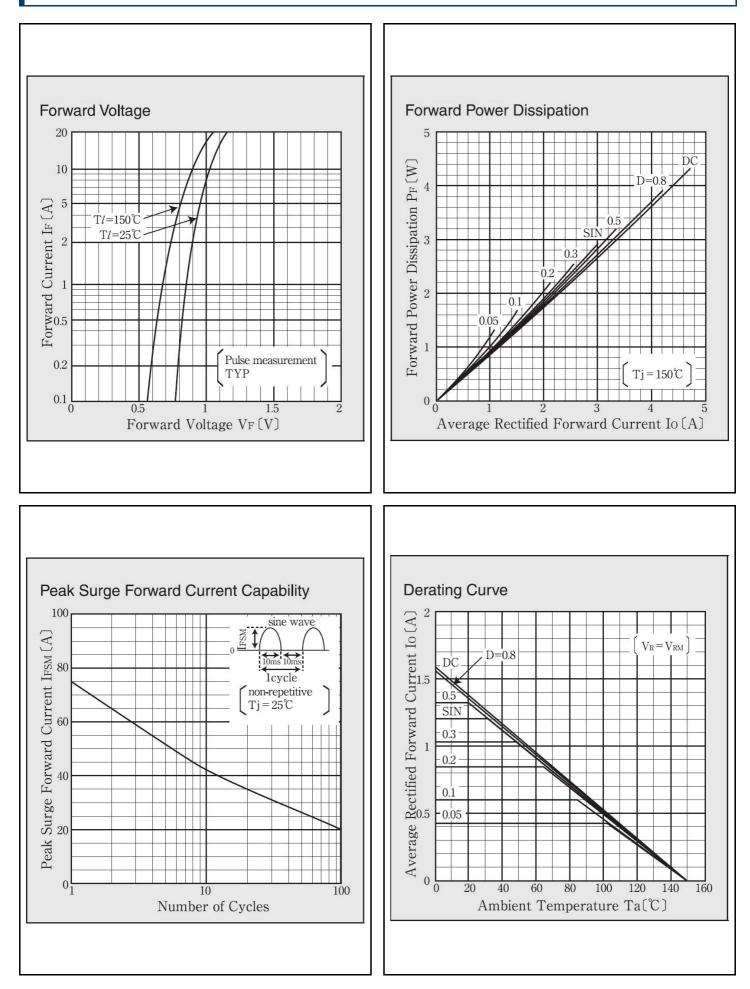
			MIN	ТҮР	MAX	
Forward voltage	V <sub>F</sub>	IF=3A, Pulse measurement			1.1	V
Reverse current	I <sub>R</sub>	VR=400V, Pulse measurement			10	μA
Electro static dischange Capability	V <sub>ESD</sub>	C=150pF, R=150Ω, Polarity±, Aerial discharge 30			kV	
Thermal resistance	Rth(j-c)	Junction to case, On glass-epoxy 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	

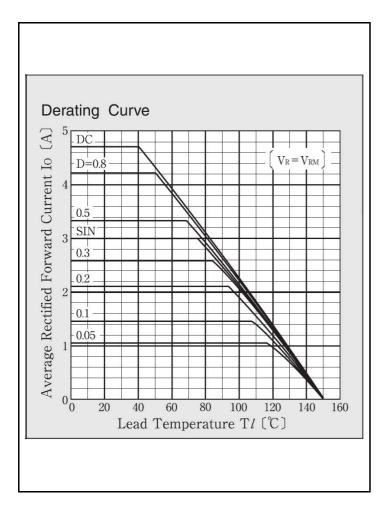
\* : See the original Specifications

Ratings

Unit

# **CHARACTERISTIC DIAGRAMS**

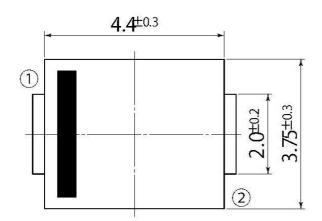


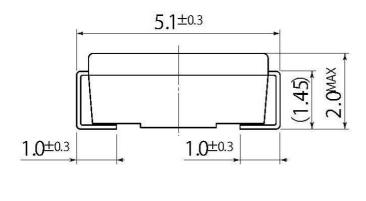


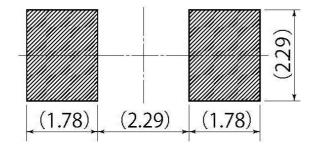
## unit:mm

scale: 10/1

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

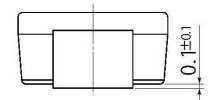






**Referential Soldering Pad** 

Optimize soldering pad to the board design and soldering condition.



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