

M2FL20U

Fast Recovery Diodes 200V, 1.5A

Feature

- Small SMD
- · High Recovery Speed
- · Available for automotive use
- 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		150	°C
Repetitive peak reverse voltage	V_{RRM}		200	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=31°C	1.5	А
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=32°C	1.2	Α
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	50	А

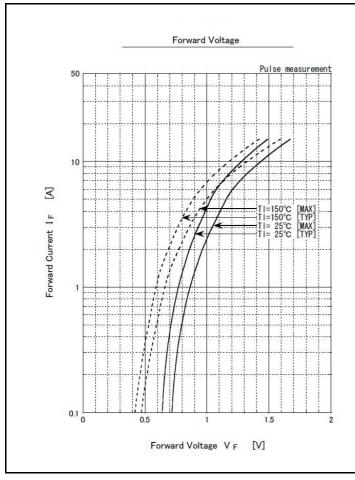
^{* :}See the original Specifications

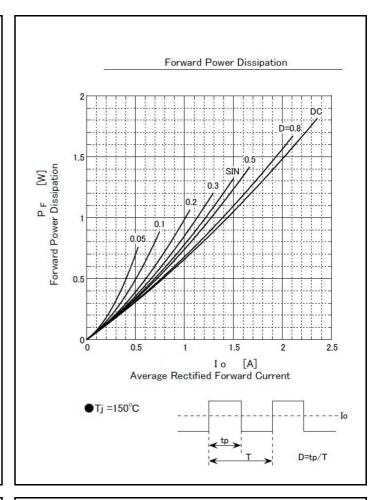
Electrical Characteristics (unless otherwise specified : TI=25°C)

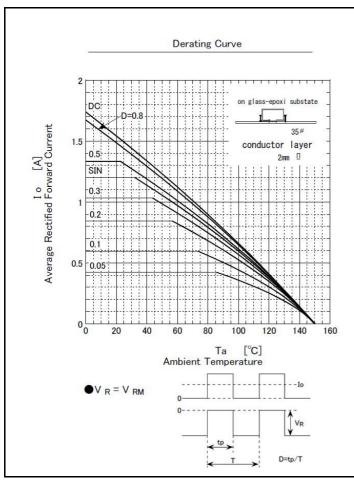
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	IF=1.5A, Pulse measurement			0.92	V
Reverse current	I _R	VR=200V, Pulse measurement			10	μΑ
Reverse recovery time	trr	IF=0.5A, IR=1.0A			35	ns
Thermal resistance	Rth(j-l)	Junction to lead			33	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On alumina substrate			90	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate			120	°C/W

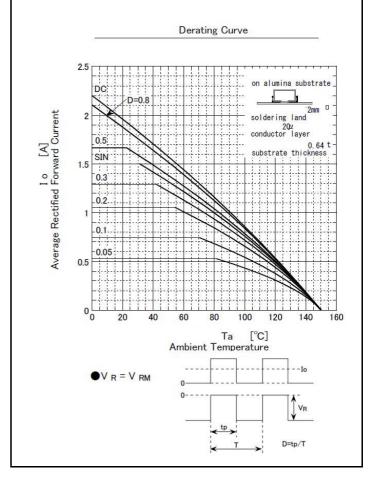
^{*} :See the original Specifications

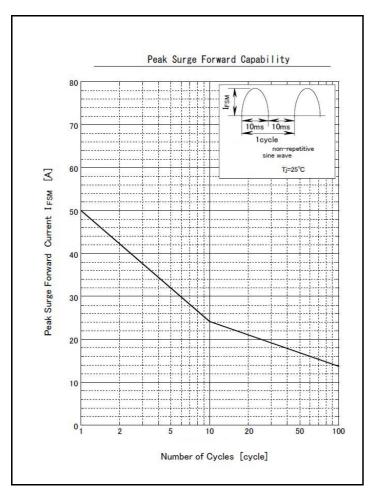
CHARACTERISTIC DIAGRAMS

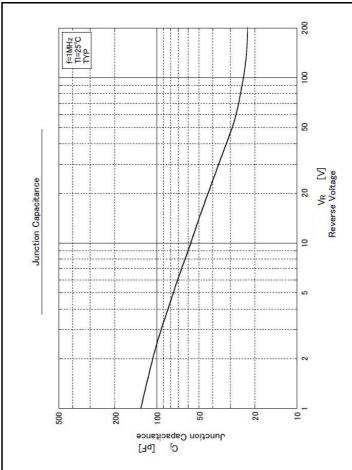










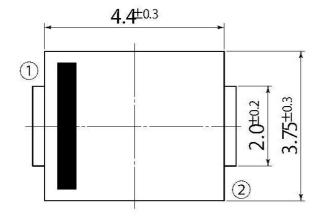


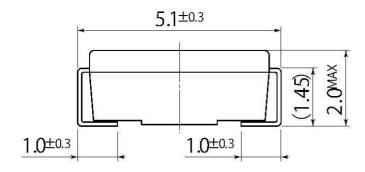
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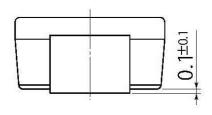
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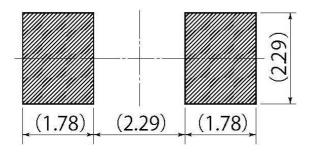
B6

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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(Specific applications)

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