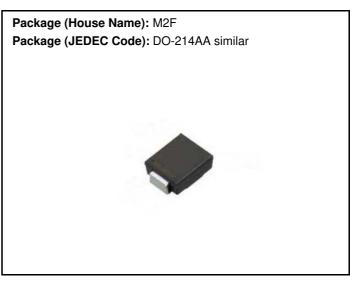
M3FL20U

Fast Recovery Diodes 200V, 3A

Feature

- Small SMD
- High Recovery Speed
- · 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}		200	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, TI=75°C *	3	A
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=28°C *	1.4	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	75	A

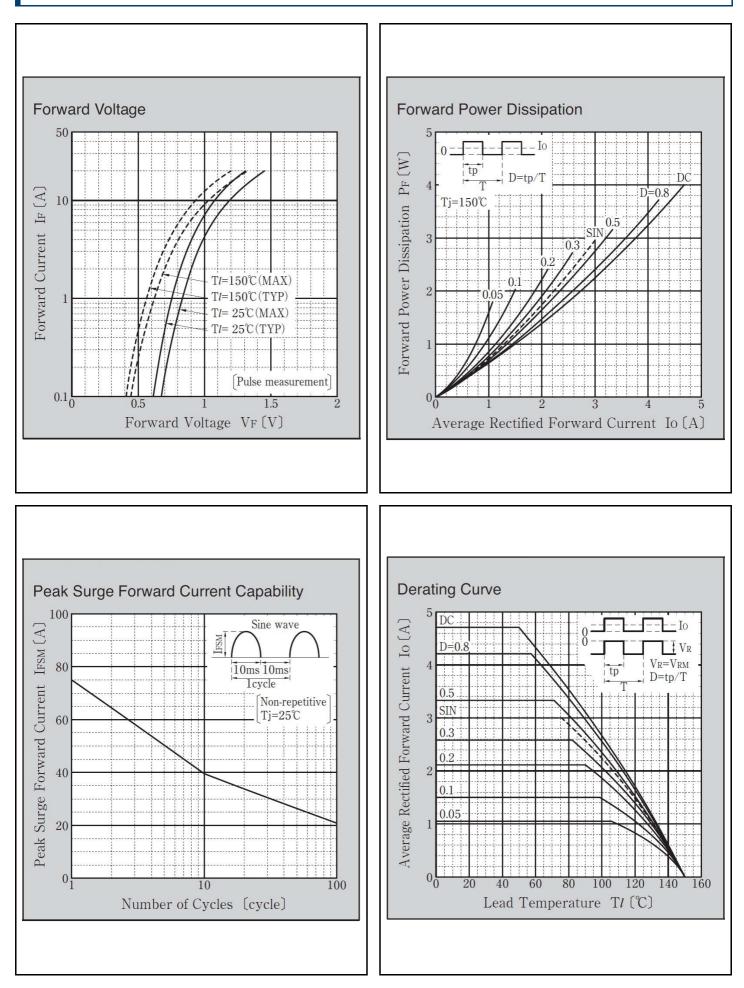
* : See the original Specifications

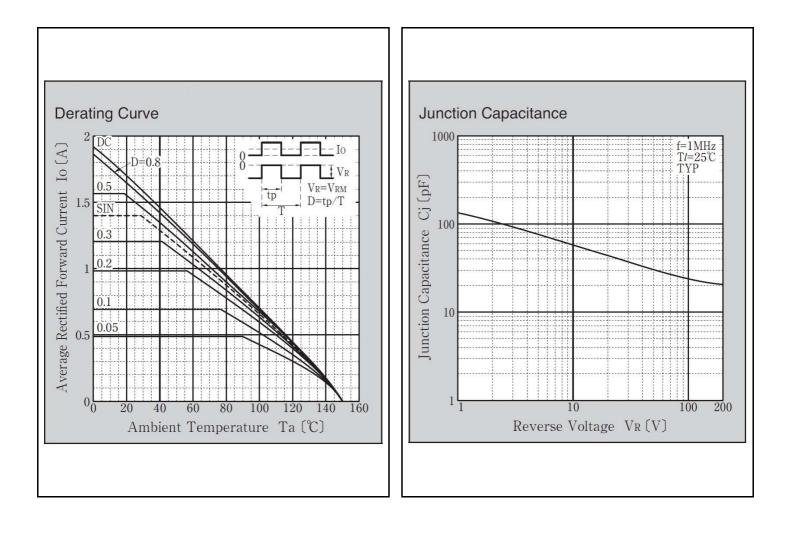
Electrical Characteristics	(unless otherwise specified : TI=25°C)
Electrical Characteristics	(unless otherwise specified : II=25°C	_)

Item	Symbol	Conditions	Ratings			Unit
			MIN	ТҮР	MAX	onin
Forward voltage	V _F	IF=3A, Pulse measurement			0.95	V
Reverse current	I _R	VR=200V, Pulse measurement			10	μA
Reverse recovery time	trr	IF=0.5A, IR=1.0A, 0.1IR			35	ns
Total capacitance	Ct	f=1MHz, VR=10V		58		pF
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

CHARACTERISTIC DIAGRAMS

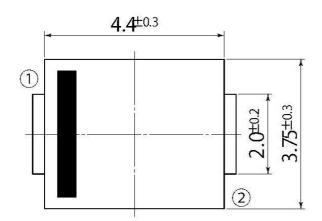


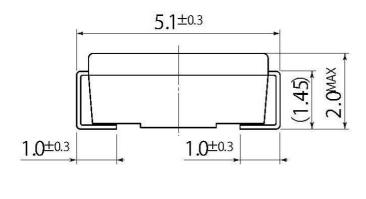


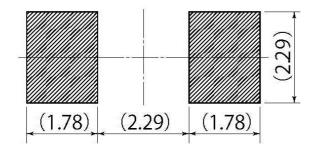
unit:mm

scale: 10/1

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

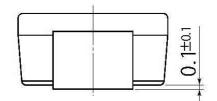






Referential Soldering Pad

Optimize soldering pad to the board design and soldering condition.



Notes

- 1. If you wish to use any such product, please be sure to refer to the specifications issued by Shindengen.
- 2. All products described or contained herein are designed with a quality level intended for use in standard applications requiring an ordinary level of reliability. If these products are to be used in equipment or devices for special or specific applications requiring an extremely high grade of quality or reliability in which failures or malfunctions of products may directly affect human life or health, a local Shindengen office must be contacted in advance to confirm that the intended use of the product is appropriate. Shindengen products are grouped into the following three applications according the quality grade.

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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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