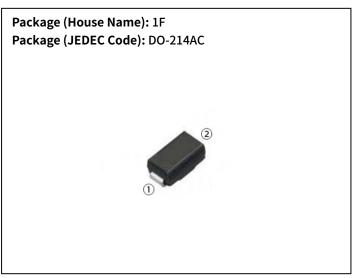
D1FL20U Fast Recovery Diodes 200V, 1.1A

Feature

- Small SMD
- High Recovery Speed
- Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : Tl=25°C)

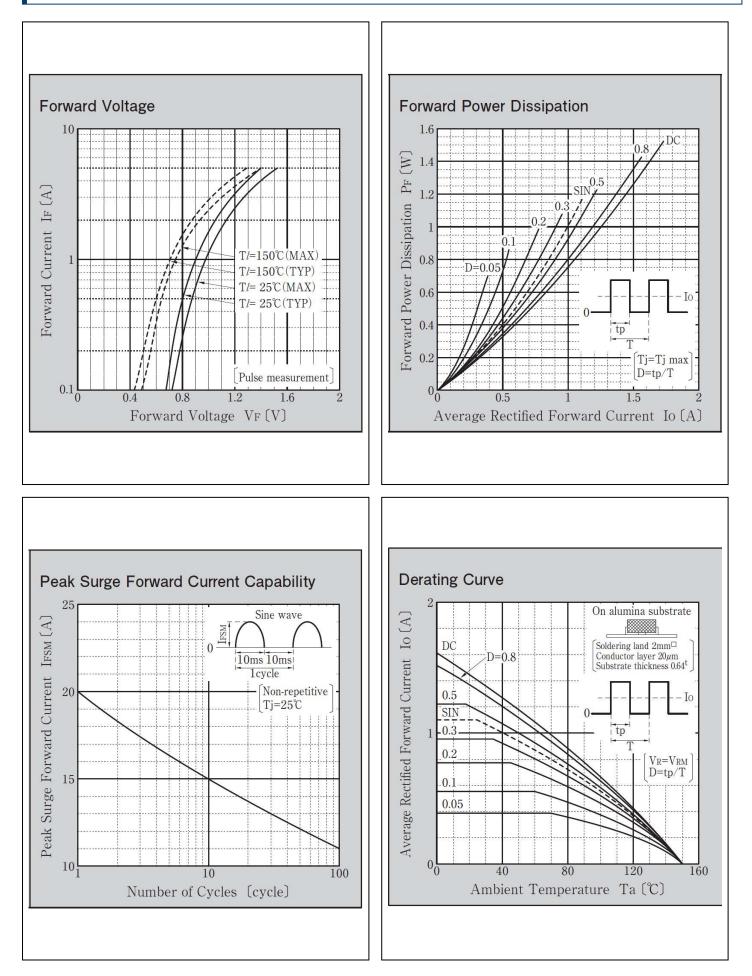
ltem	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Тј		-55 to 150	°C
Repetitive peak reverse voltage	V _{RRM}		200	v
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C ※	1.1	А
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C ※	0.84	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	20	А

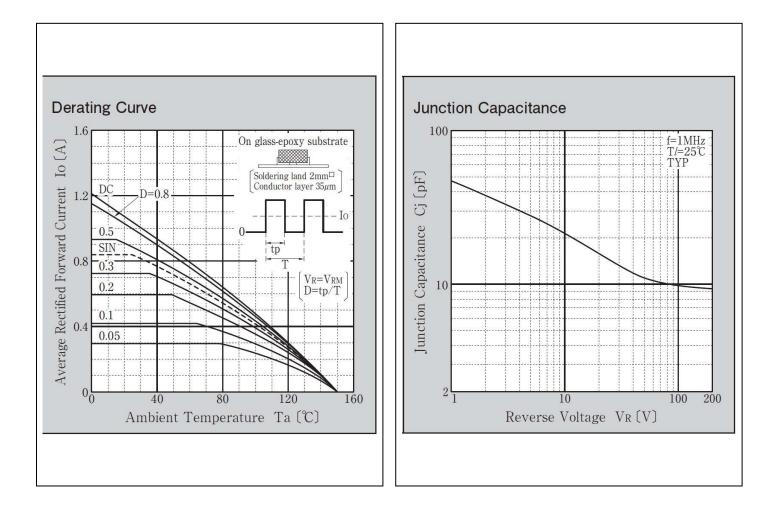
※ ∶See the original Specifications

Electrical Characteristics (unless otherwise specified : Tl=25°C)									
Item	Symbol	Conditions	Ratings			1			
			MIN	ТҮР	МАХ	Unit			
Forward voltage	V _F	IF=1.1A, Pulse measurement			0.98	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			
Thermal resistance	Rth(j-l)	Junction to lead			23	°C/W			
Thermal resistance	Rth(j-a)	Junction to ambient, On alumina substrate ※			108	°C/W			
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate ※			157	°C/W			

* : See the original Specifications

CHARACTERISTIC DIAGRAMS

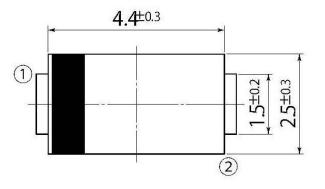


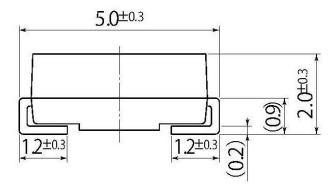


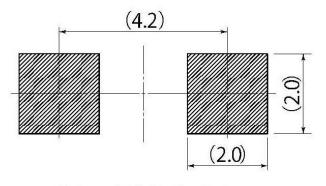
unit:mm

scale: 10/1

B3	JEDEC Code	DO-214AC
	JEITA Code	
	House Name	1F, CF

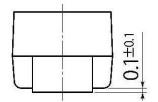






Referential Soldering Pad

• 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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