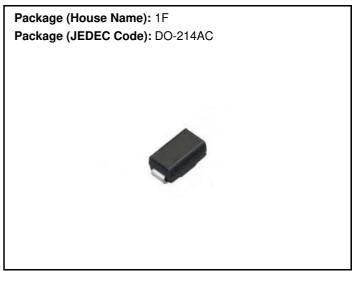
# D1FS6A

Schottky Barrier Diodes 60V, 2.5A

# Feature

- Small SMD
- High Recovery Speed
- Low V<sub>F</sub>
- · 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>		60	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, TI=103°C	2.5	А
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C *	1.5	A
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	1	A
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	60	А

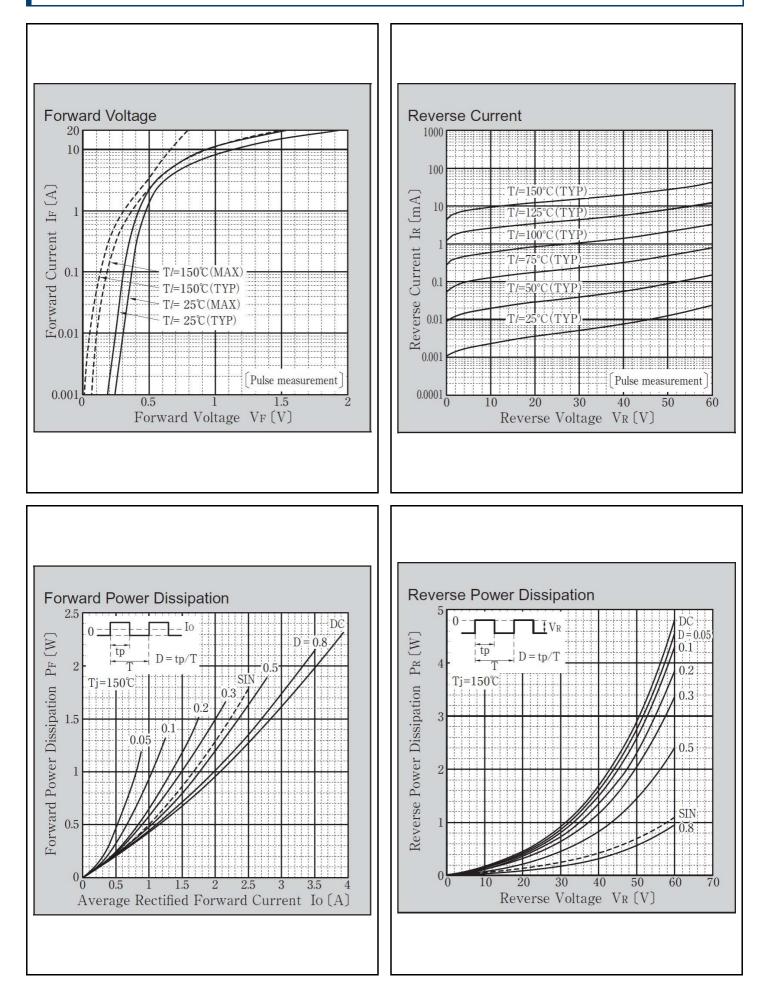
\* : See the original Specifications

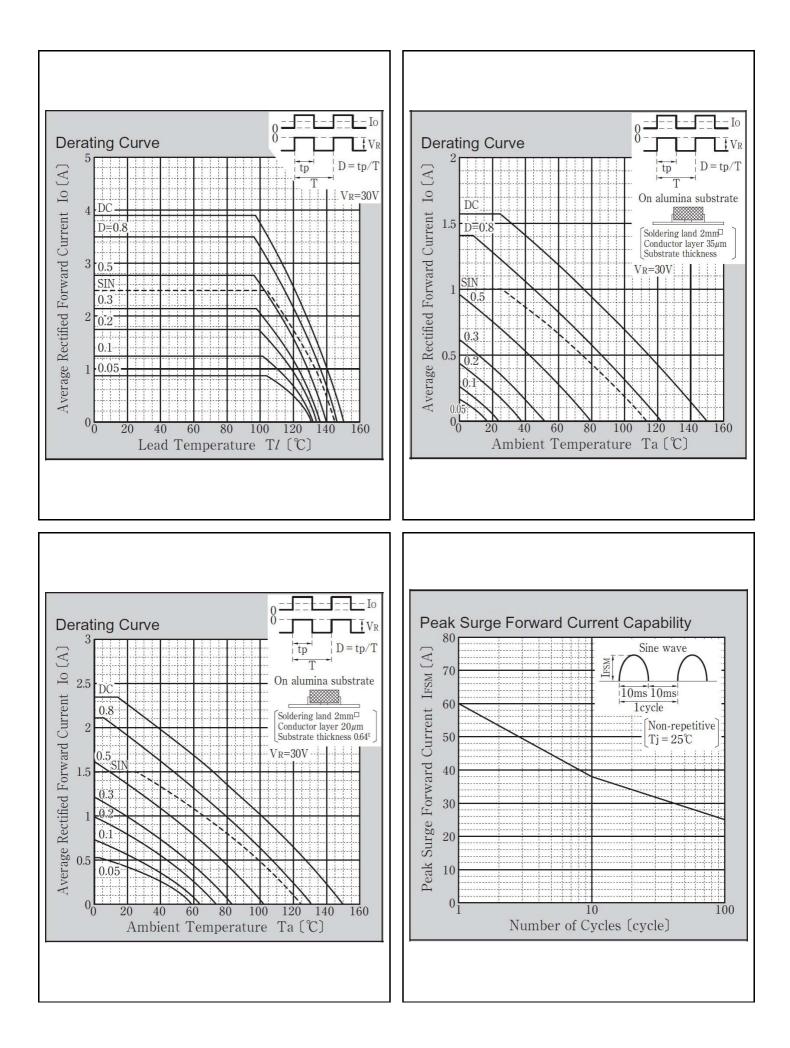
Electrical Characteristics (unles	ss otherwise specified : TI=25°C)
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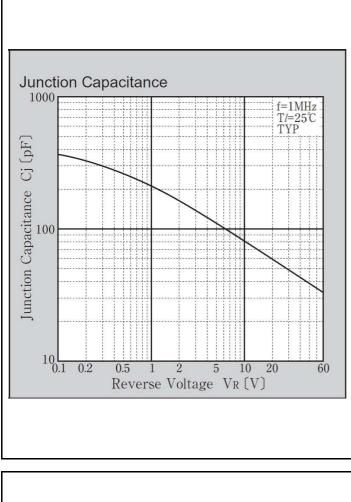
Item	Symbol	Conditions	Ratings			Unit
			MIN	ТҮР	MAX	Onit
Forward voltage	V <sub>F</sub>	IF=2.5A, Pulse measurement			0.57	V
Forward voltage	V <sub>F</sub>	IF=1A, Pulse measurement			0.47	V
Reverse current	I <sub>R</sub>	VR=60V, Pulse measurement			0.2	mA
Total capacitance	Ct	f=1MHz, VR=10V		80		pF
Thermal 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

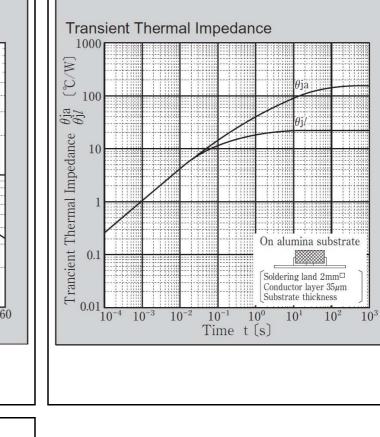
\* :See the original Specifications

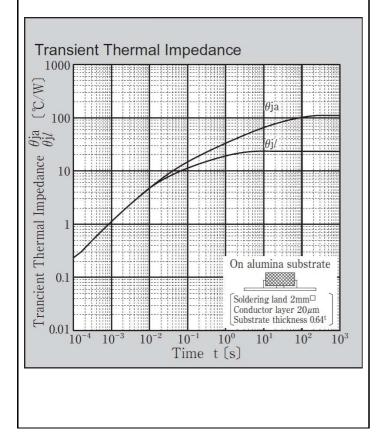
# **CHARACTERISTIC DIAGRAMS**







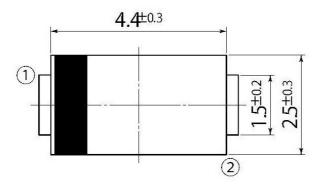


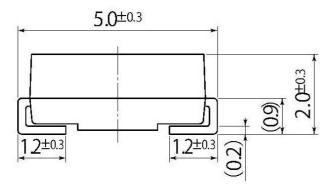


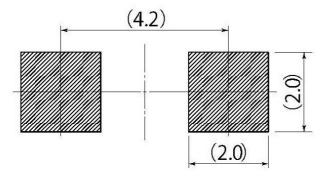
## unit:mm

scale: 10/1

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

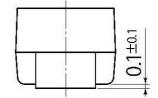






# Referential Soldering Pad

Optimize soldering pad to the board design and soldering condition.



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#### [Specific applications]

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