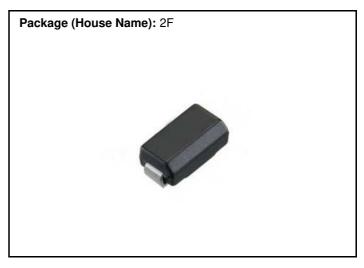
D3FS6

Schottky Barrier Diodes 60V, 3A

Feature

- Small SMD
- High Recovery Speed
- Low V_{F}
- · Available for automotive use
- 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}		60	V	
Repetitive peak surge reverse voltage	V _{RRSM}	Pulse width 0.5ms, duty=1/40	65	v	
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, TI=87°C	3	А	
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C *	1.65	А	
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	1.05	А	
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	80	A	
Repetitive peak surge reverse power	P _{RRSM}	Pulse width 10μs, Tj=25°C	330	w	

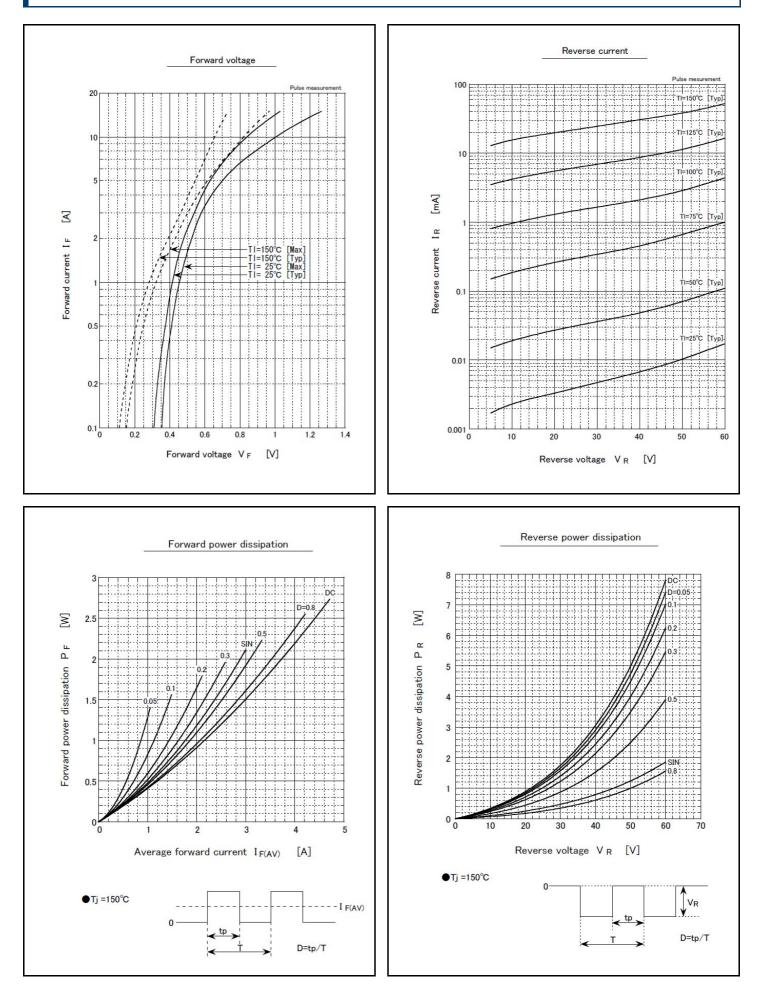
* : See the original Specifications

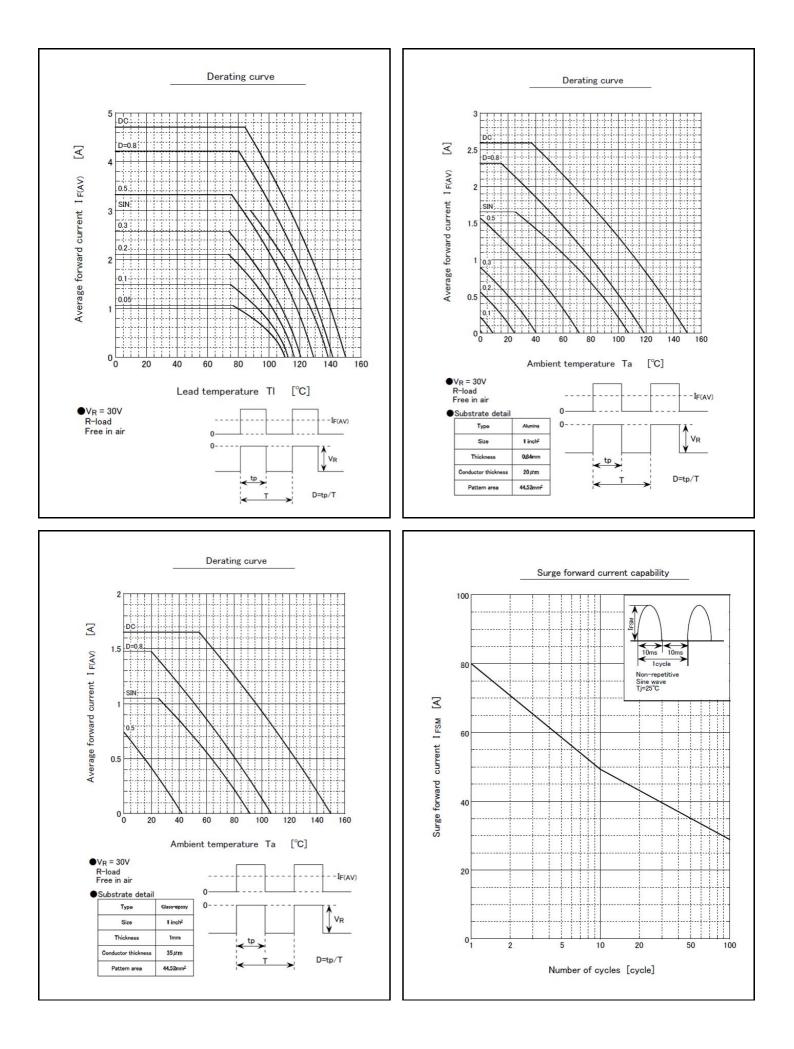
Electrical Characteristics	(unless otherwise specified : TI=25°C)
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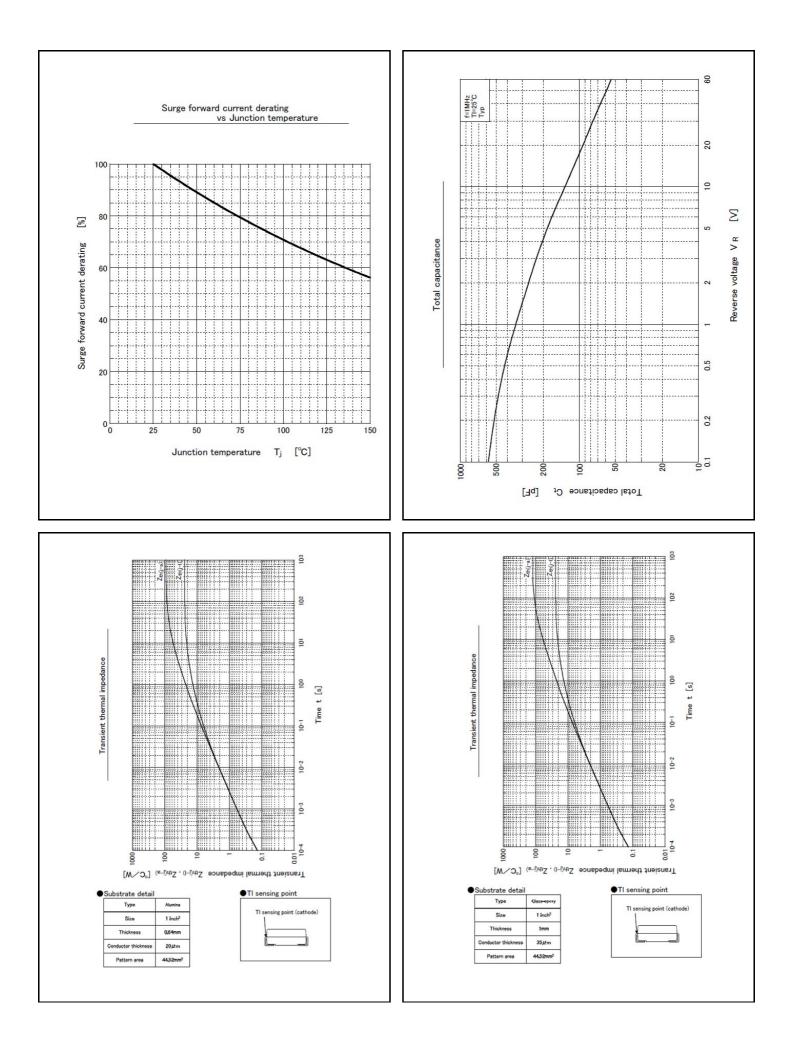
Item	Symbol	Conditions	Ratings			Unit
			MIN	ТҮР	MAX	onin
Forward voltage	V _F	IF=3A, Pulse measurement			0.58	V
Reverse current	I _R	VR=60V, Pulse measurement			2.5	mA
Total capacitance	Ct	f=1MHz, VR=10V		130		pF
Thermal resistance	Rth(j-l)	Junction to lead			24	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On alumina substrate *			90	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			124	°C/W

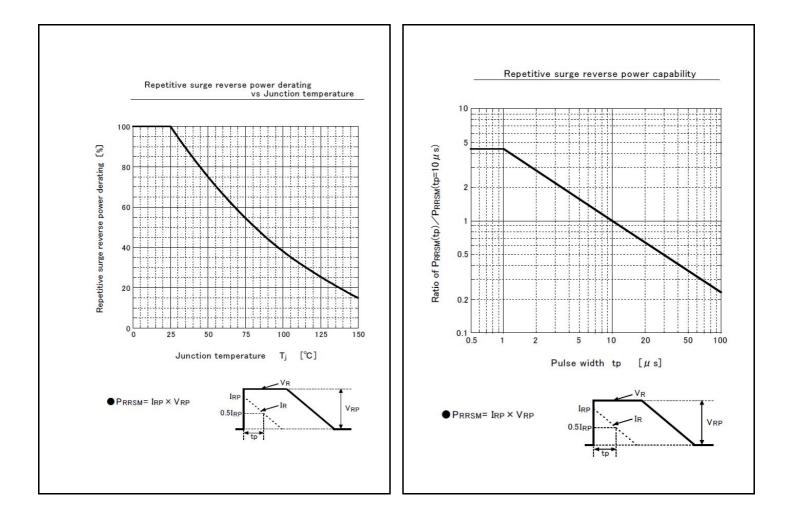
* : See the original Specifications

CHARACTERISTIC DIAGRAMS







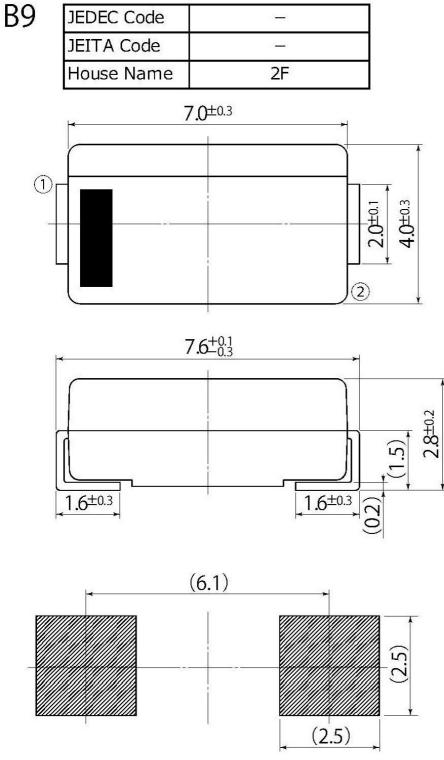


unit:mm

scale: 10/1

C 0.8

0.1±0.1



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.
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[Special applications]

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[Specific applications]

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