

D2FS6

Schottky Barrier Diodes

60V, 1.5A

Feature

- Small SMD
- High Recovery Speed
- Low V_F
- Available for automotive use
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 2F



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T _{stg}		-40 to 150	°C
Junction temperature	T _j		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, On alumina substrate, Ta=31°C	1.5	A
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=26°C	1.1	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1 cycle, Peak value, T _j =25°C	60	A
Repetitive peak surge reverse power	P _{RRSM}	Pulse width 10μs, T _j =25°C	330	W

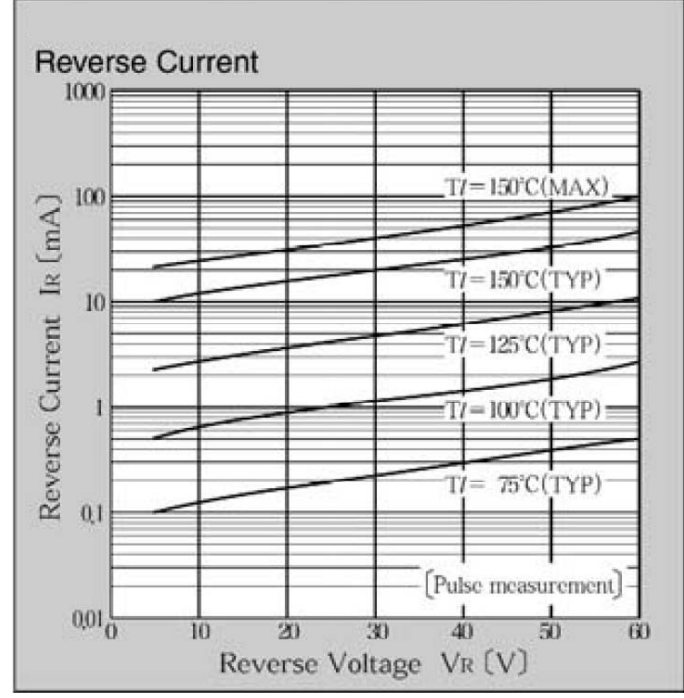
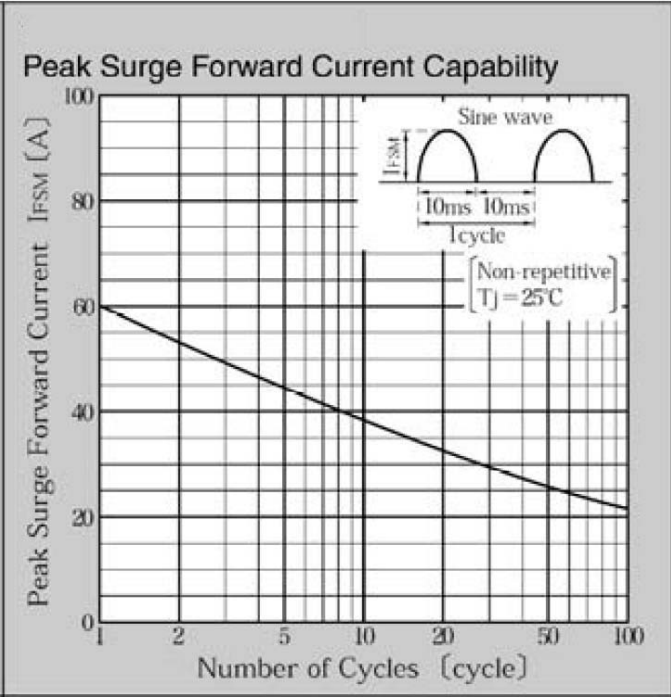
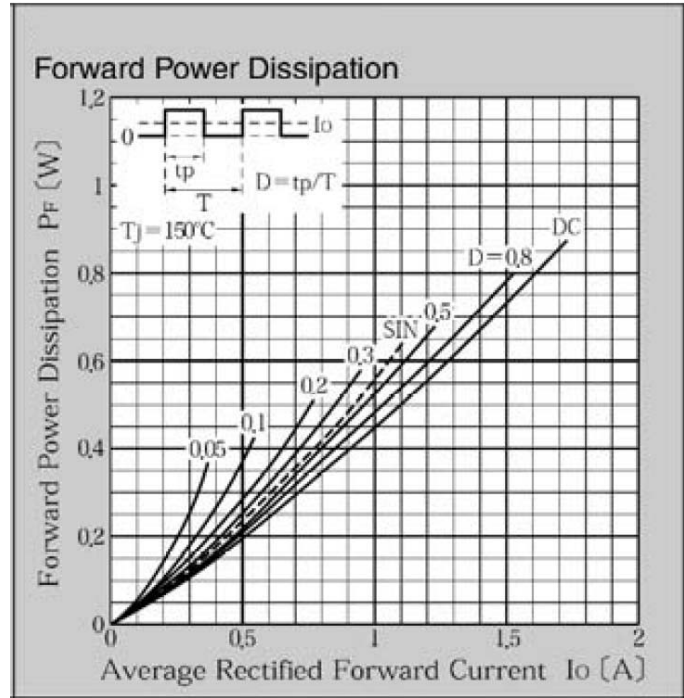
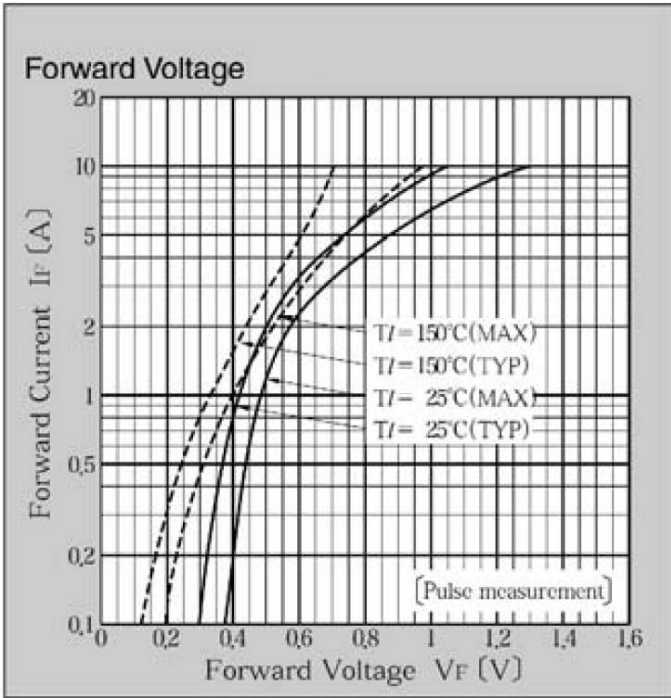
* :See the original Specifications

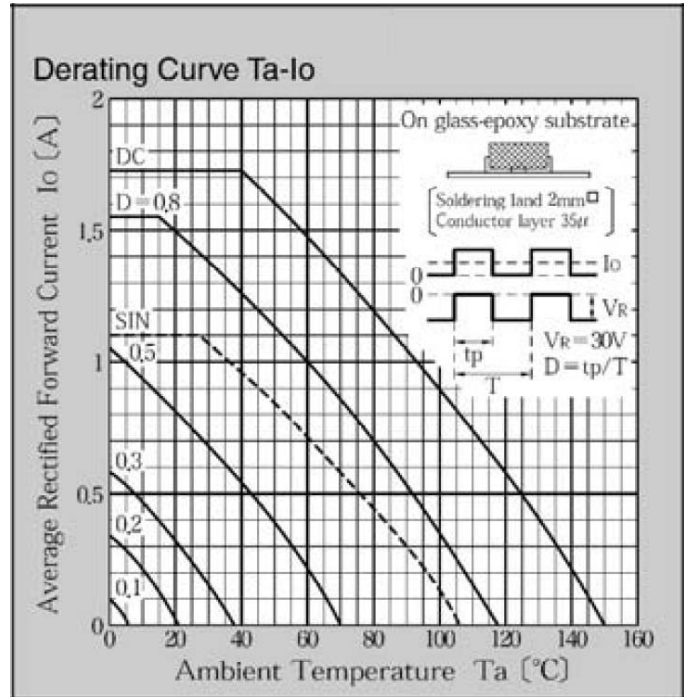
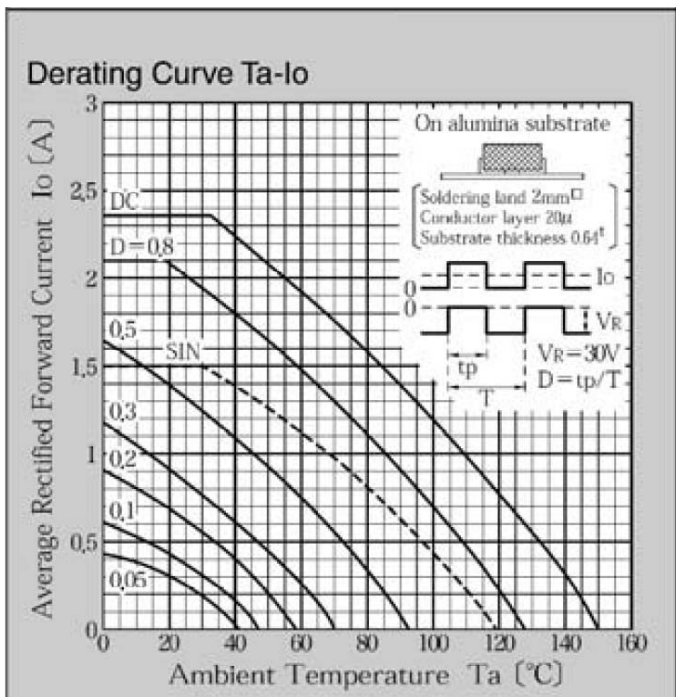
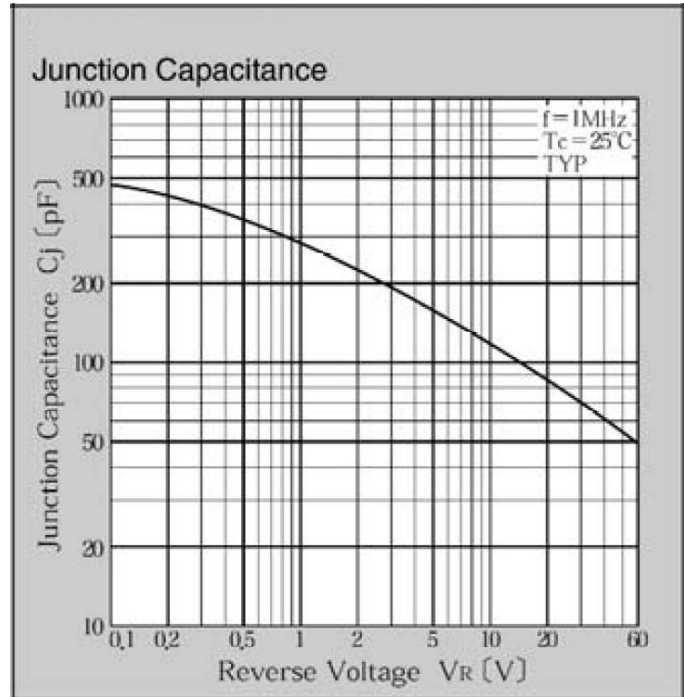
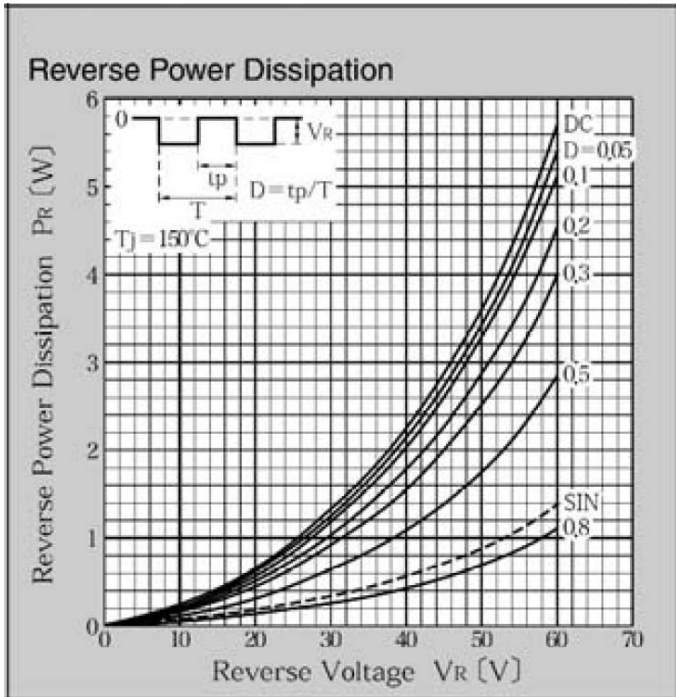
Electrical Characteristics (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	$I_F=2A$, Pulse measurement			0.58	V
Reverse current	I_R	$V_R=60V$, Pulse measurement			2	mA
Total capacitance	C_t	$f=1MHz$, $V_R=10V$		120		pF
Thermal resistance	$R_{th(j-l)}$	Junction to lead			24	°C/W
Thermal resistance	$R_{th(j-a)}$	Junction to ambient, On alumina substrate			90	°C/W
Thermal resistance	$R_{th(j-a)}$	Junction to ambient, On glass-epoxy substrate			126	°C/W

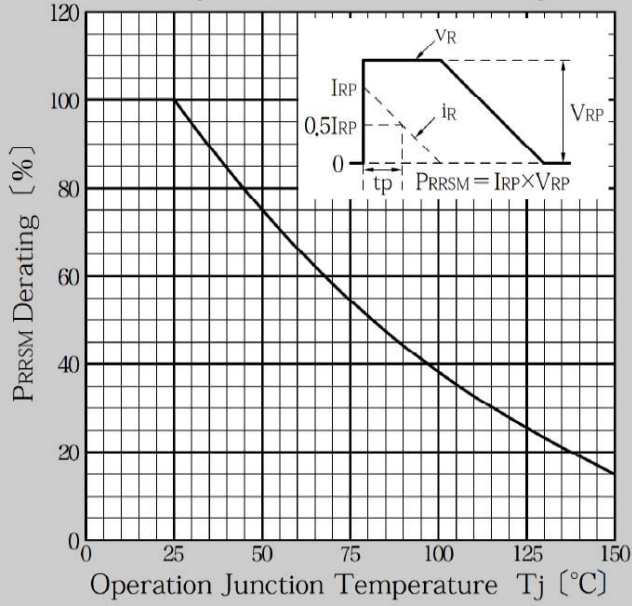
* :See the original Specifications

CHARACTERISTIC DIAGRAMS

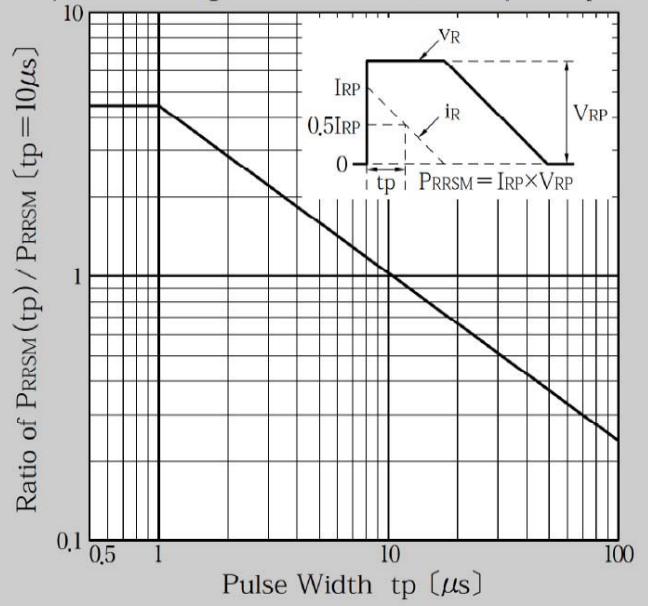




Repetitive Surge Reverse Power Derating Curve

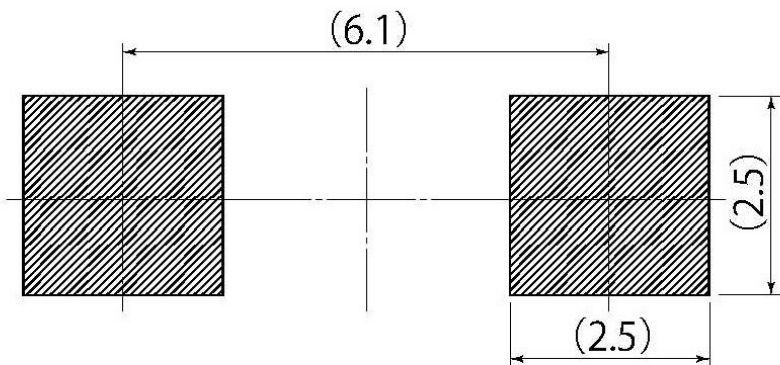
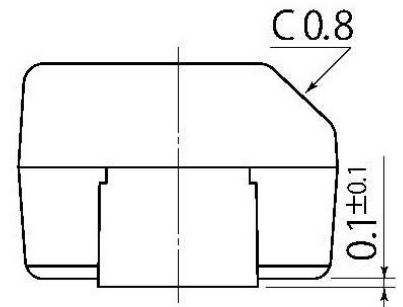
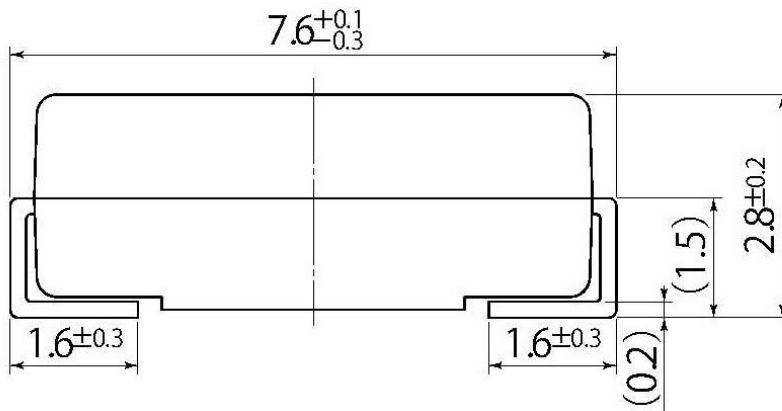
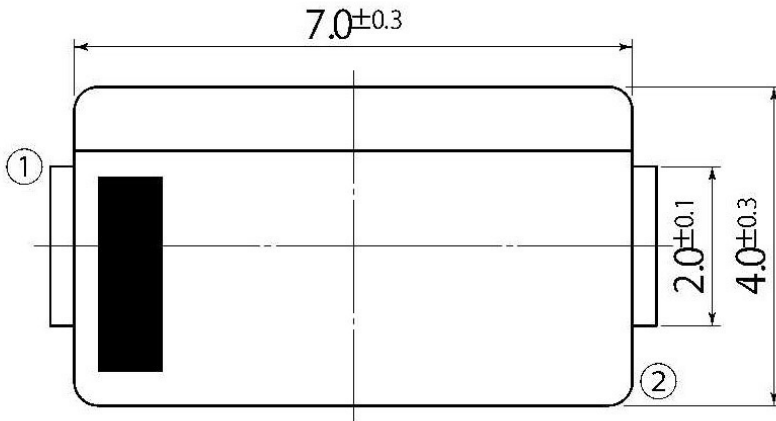


Repetitive Surge Reverse Power Capability



B9

JEDEC Code	—
JEITA Code	—
House Name	2F



Referential Soldering Pad

• Optimize soldering pad to the board design and soldering condition.

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