

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 temperrature	Tstg		-40 to 150	°C
Junction temperature	Tj		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, 1cycle, Peak value, Tj=25°C	60	A
Repetitive peak surge reverse power	P_{RRSM}	Pulse width 10μs, Tj=25°C	330	W

※ :See the original Specifications

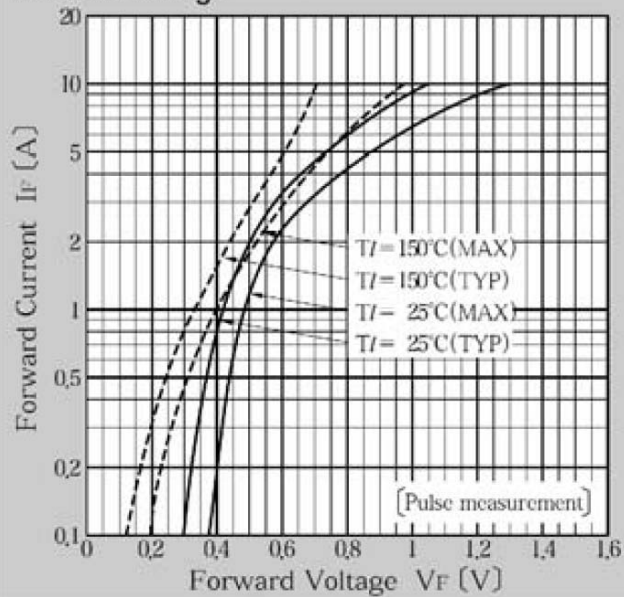
Electrical Characteristics (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=2A, Pulse measurement			0.58	V
Reverse current	I_R	VR=60V, Pulse measurement			2	mA
Total capacitance	C_t	f=1MHz, VR=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

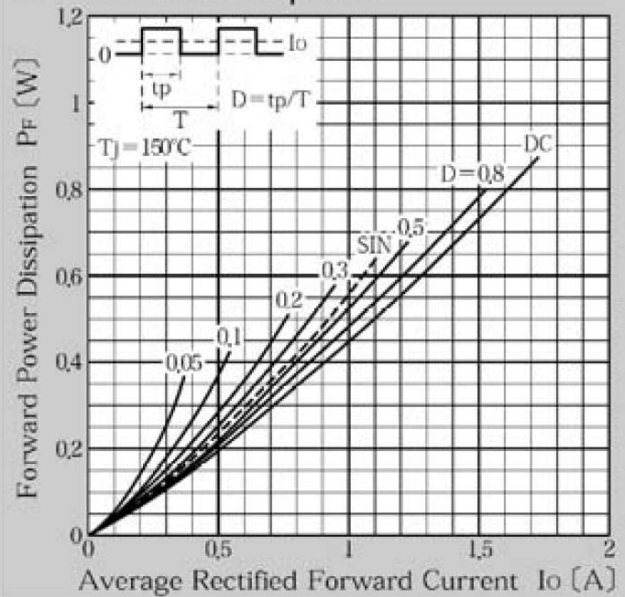
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

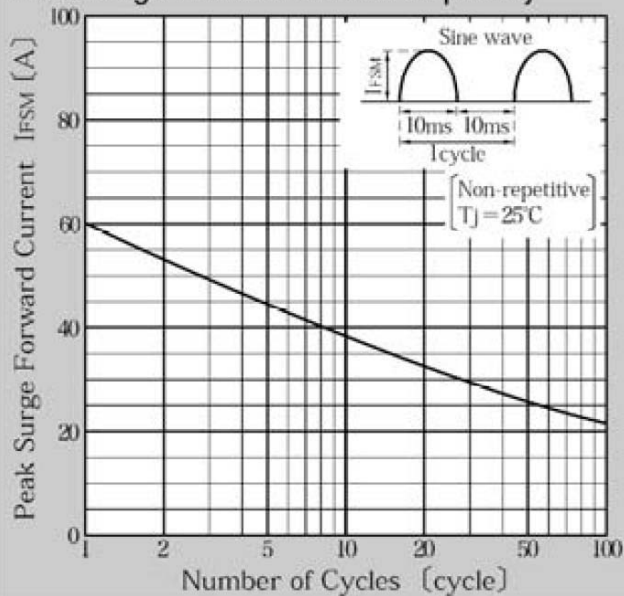
Forward Voltage



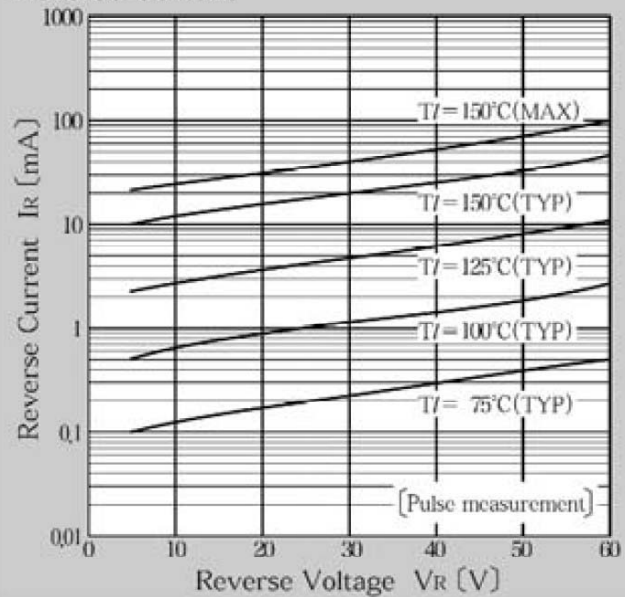
Forward Power Dissipation



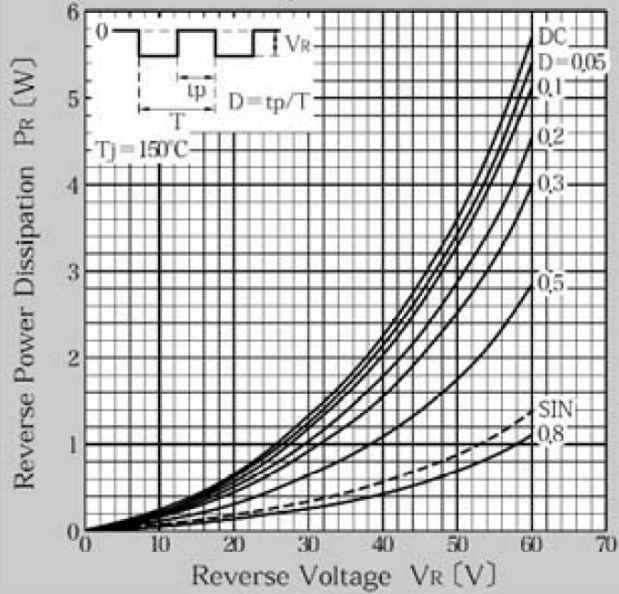
Peak Surge Forward Current Capability



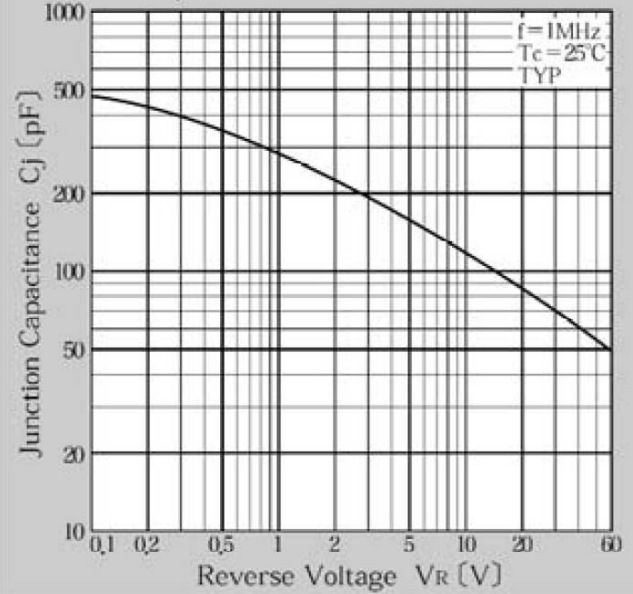
Reverse Current



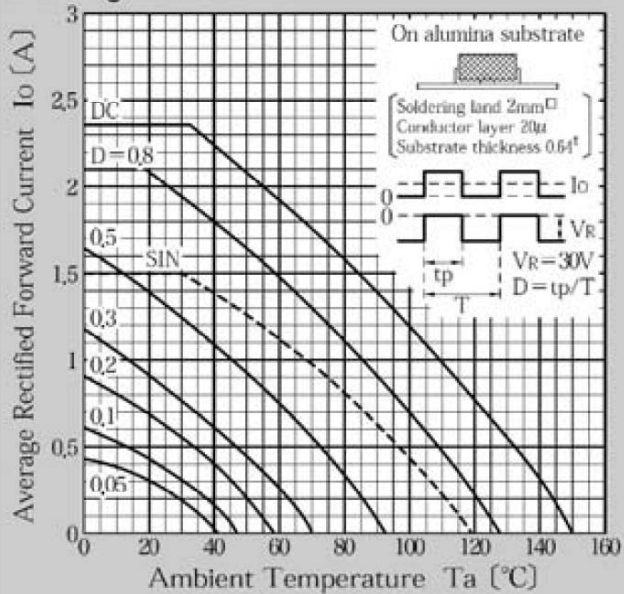
Reverse Power Dissipation



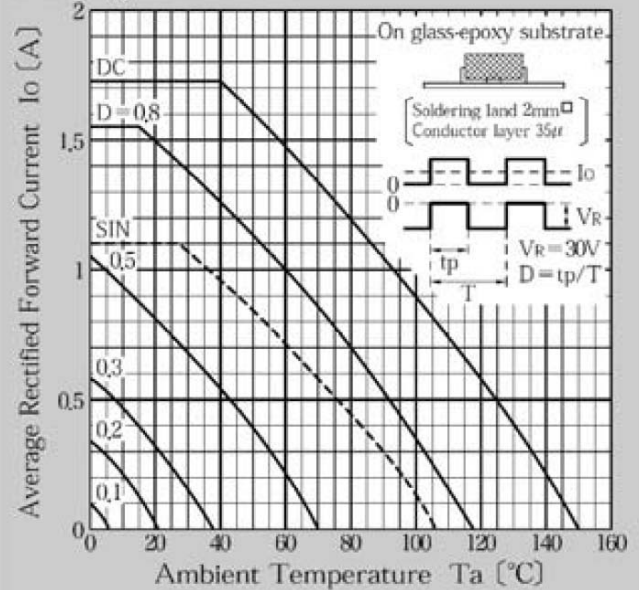
Junction Capacitance



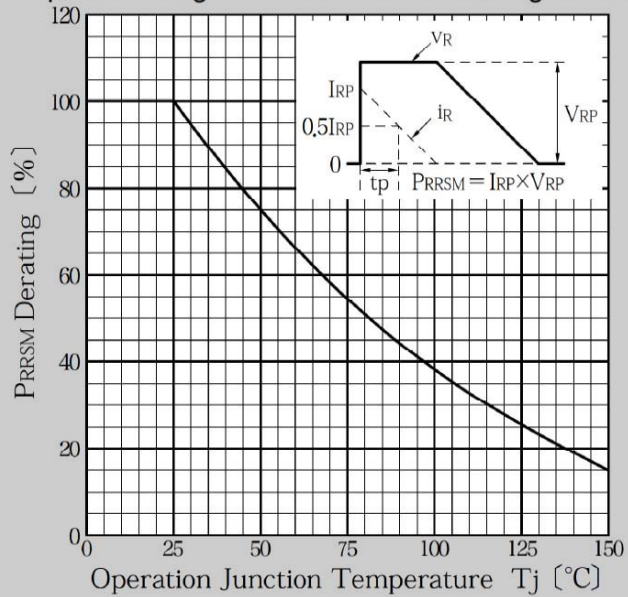
Derating Curve Ta-Io



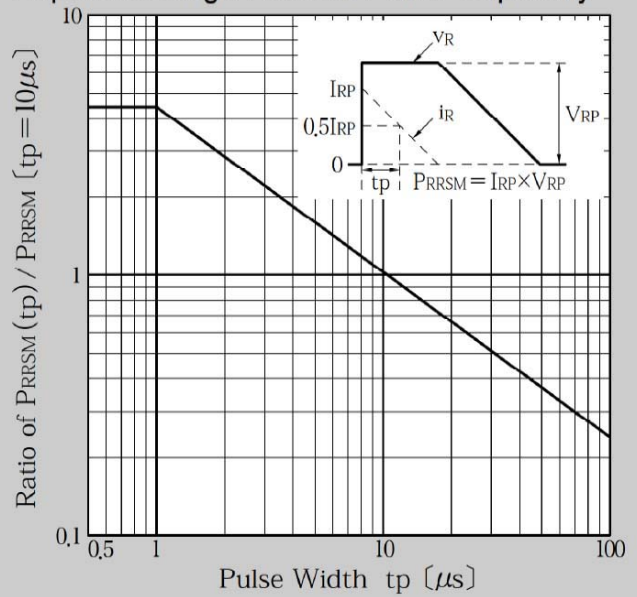
Derating Curve Ta-Io



Repetitive Surge Reverse Power Derating Curve

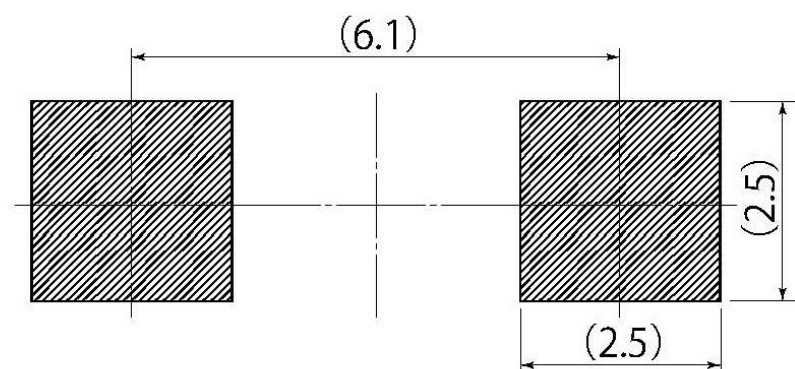
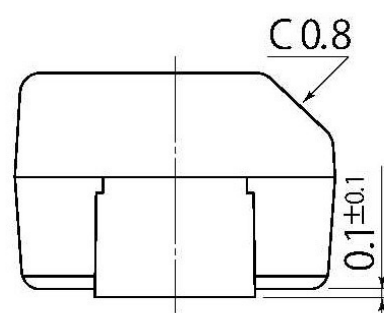
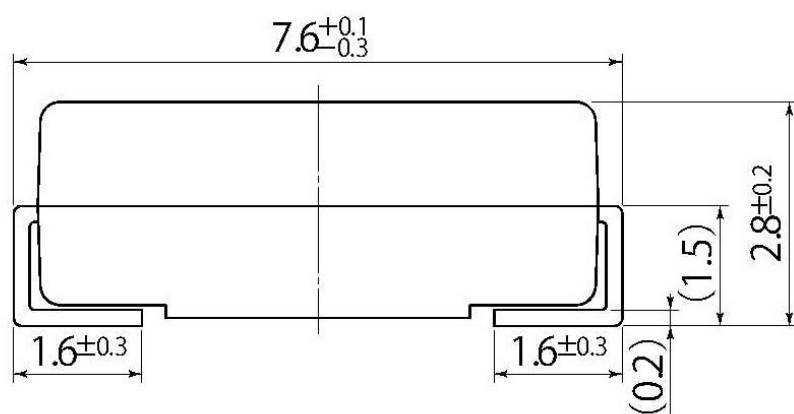
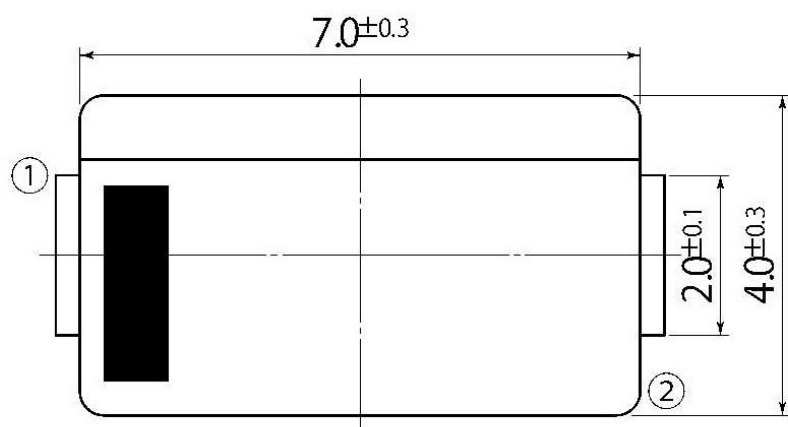


Repetitive Surge Reverse Power Capability



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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