

D3F60
General Rectifying Diodes
600V, 3A

Feature

- Small SMD
- High I_{FSM}
- Available for automotive use
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 2F



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : $T_l=25^{\circ}\text{C}$)

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T_{stg}		-55 to 150	$^{\circ}\text{C}$
Junction temperature	T_j		150	$^{\circ}\text{C}$
Repetitive peak reverse voltage	V_{RRM}		600	V
Average forward current	$I_{F(AV)}$	50Hz sine wave, Resistance load, $T_l=80^{\circ}\text{C}$	3	A
Surge forward current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^{\circ}\text{C}$	150	A

※ :See the original Specifications

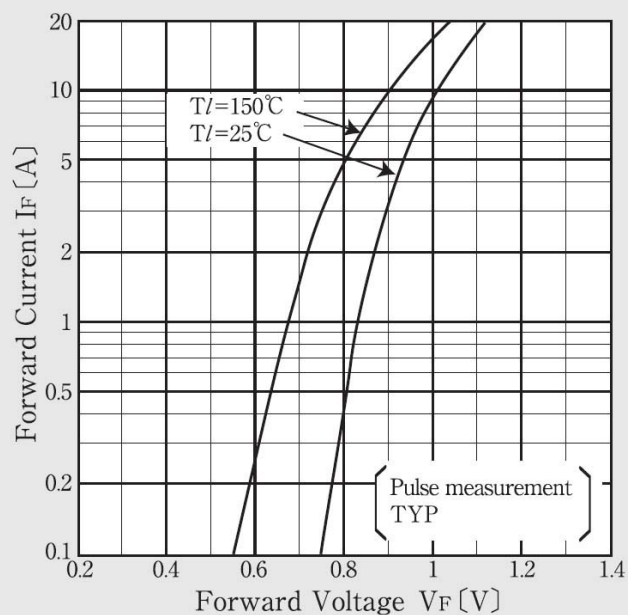
Electrical Characteristics (unless otherwise specified : $T_l=25^{\circ}\text{C}$)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	$I_F=3\text{A}$, Pulse measurement			1.05	V
Reverse current	I_R	$V_R=600\text{V}$, Pulse measurement			10	μA
Thermal resistance	$R_{th(j-l)}$	Junction to lead			23	$^{\circ}\text{C/W}$
Thermal resistance	$R_{th(j-a)}$	Junction to ambient, On alumina substrate			80	$^{\circ}\text{C/W}$
Thermal resistance	$R_{th(j-a)}$	Junction to ambient, On glass-epoxy substrate			115	$^{\circ}\text{C/W}$

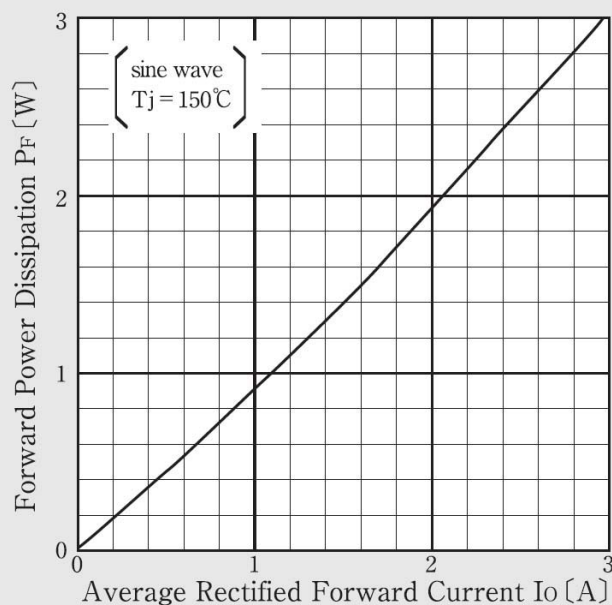
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

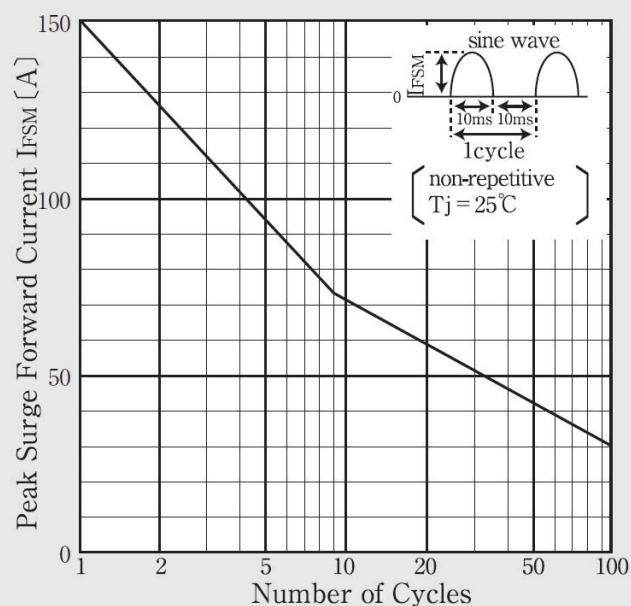
Forward Voltage



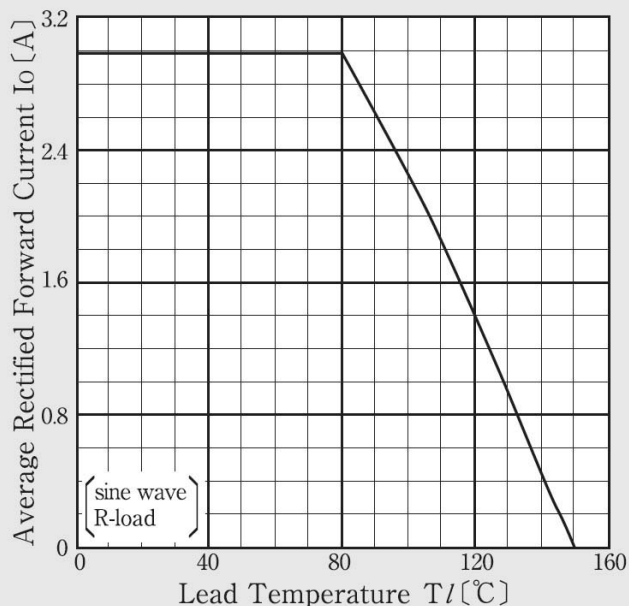
Forward Power Dissipation



Peak Surge Forward Current Capability

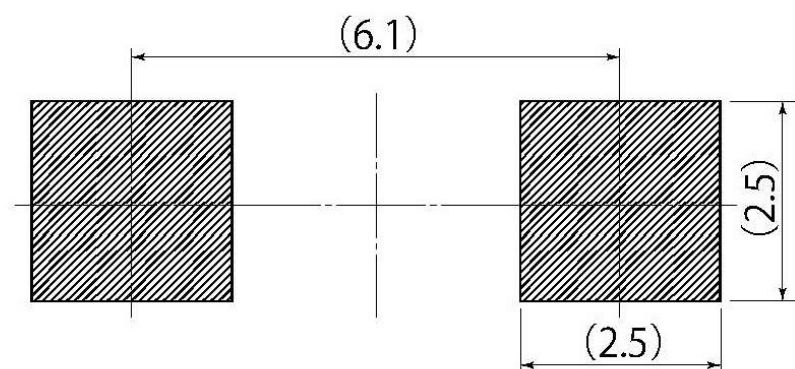
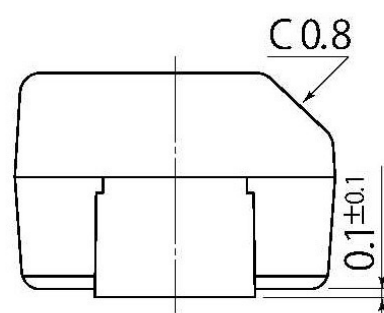
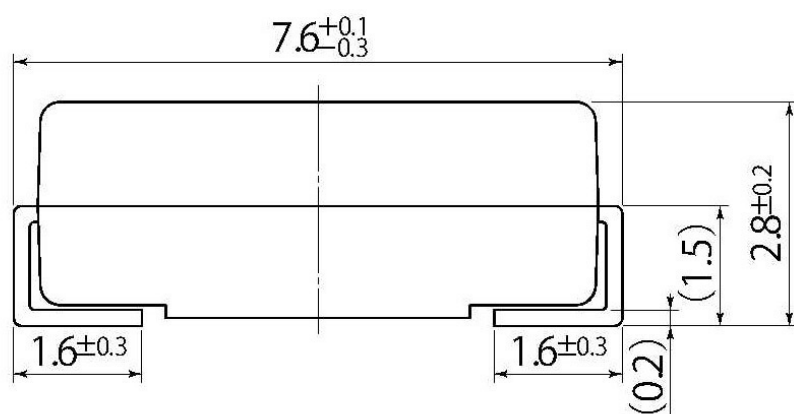
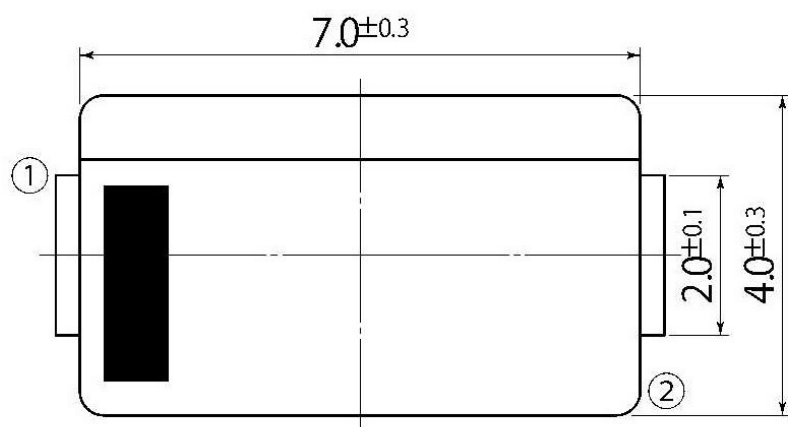


Derating Curve



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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