

D1FH3

Schottky Barrier Diodes 30V, 3A

Feature

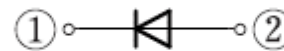
- Small SMD
- High Recovery Speed
- Low V_F
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 1F
Package (JEDEC Code): DO-214AC



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T_{stg}		-55 to 125	$^{\circ}\text{C}$
Junction temperature	T_j		-55 to 125	$^{\circ}\text{C}$
Repetitive peak reverse voltage	V_{RRM}		30	V
Average forward current	$I_F(AV)$	50Hz sine wave, Resistance load, $T_c=95^{\circ}\text{C}$	3	A
Average forward current	$I_F(AV)$	50Hz sine wave, Resistance load, $T_l=91^{\circ}\text{C}$	3	A
Average forward current	$I_F(AV)$	50Hz sine wave, Resistance load, On glass-epoxy substrate, $T_a=25^{\circ}\text{C}$ ※	2.5	A
Surge forward current	I_{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, $T_j=25^{\circ}\text{C}$	60	A

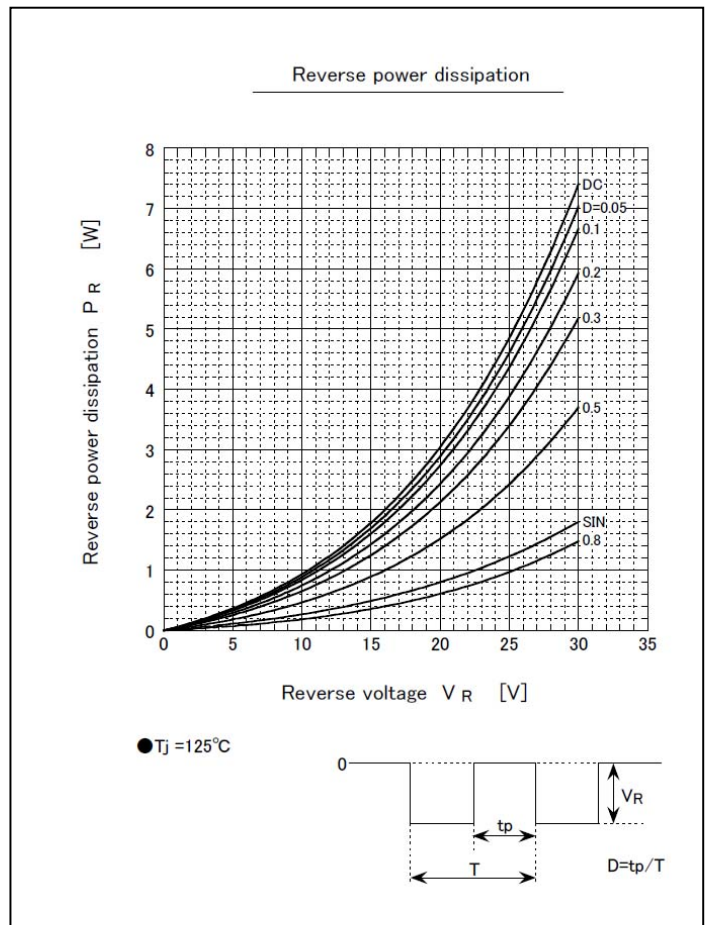
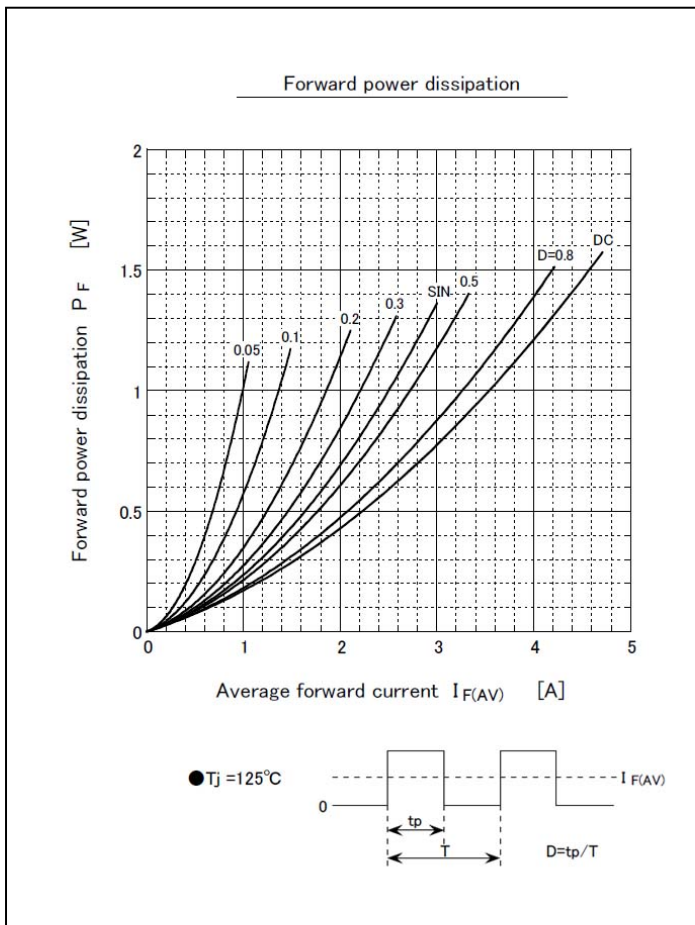
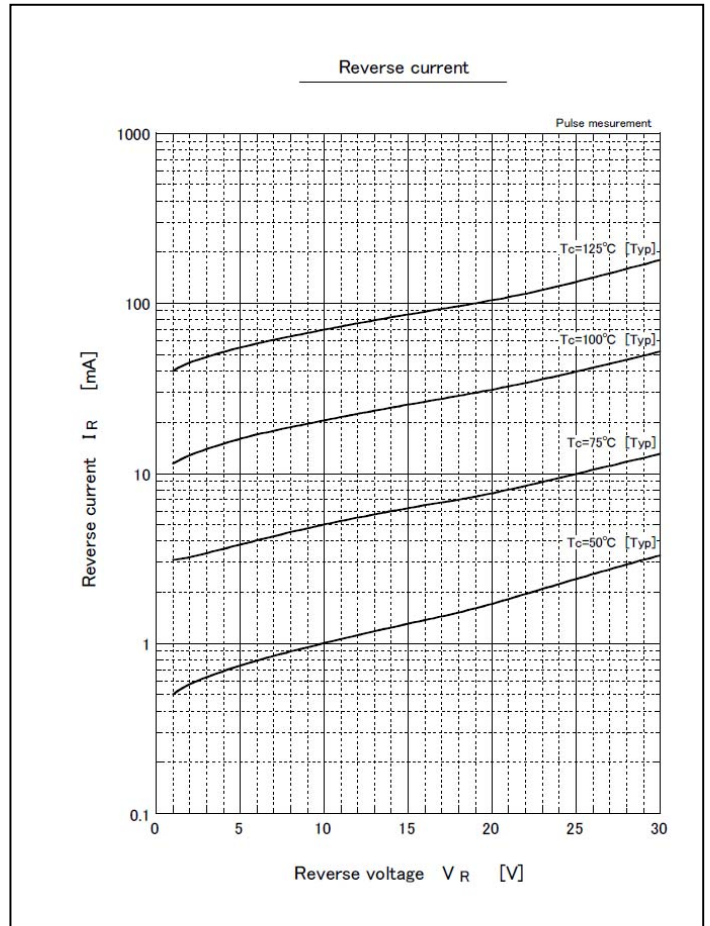
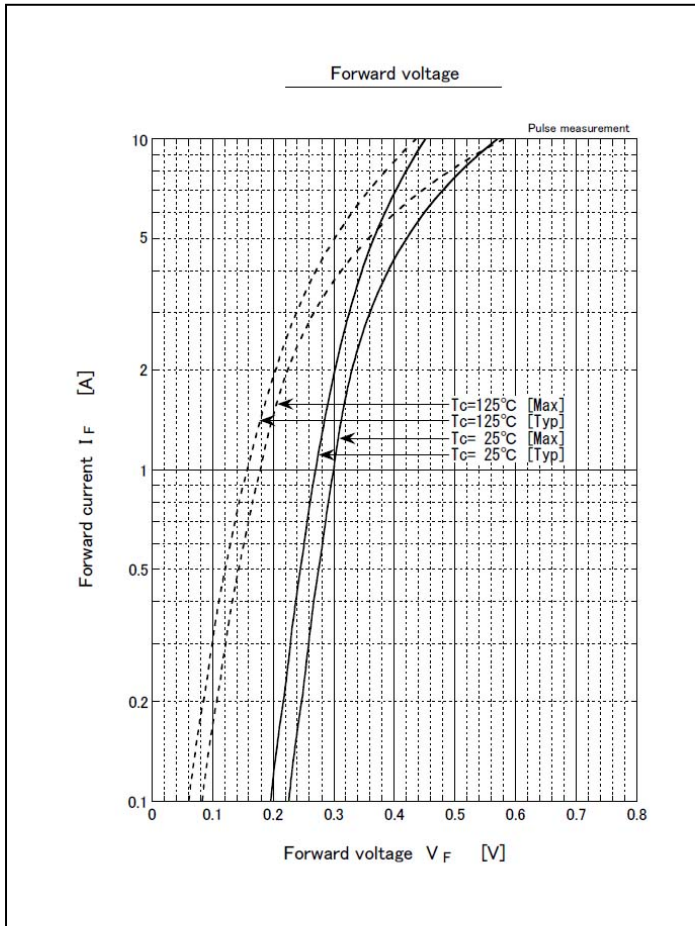
※ : See the original Specifications

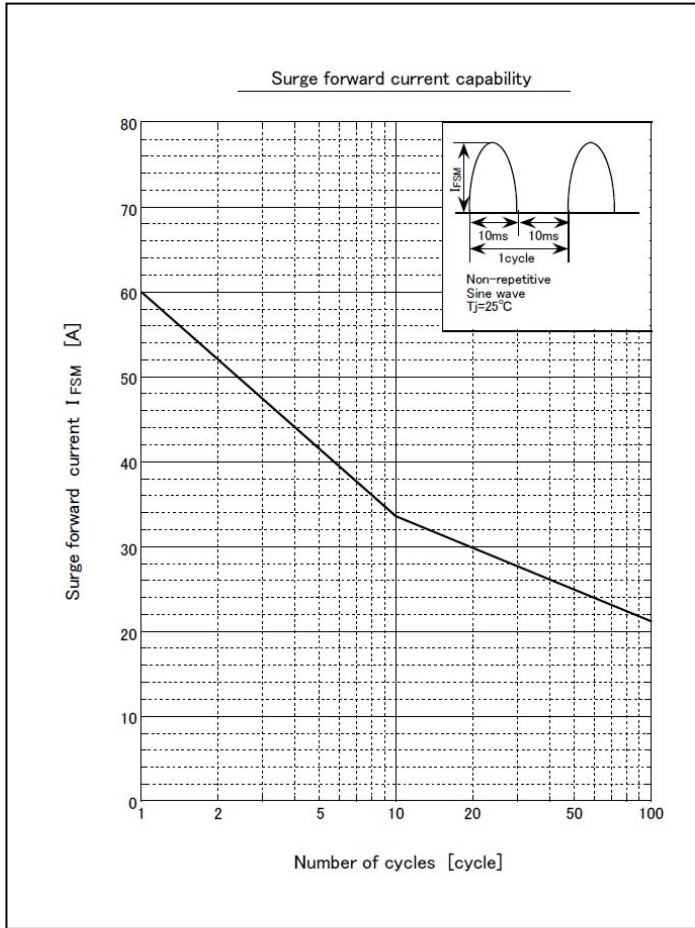
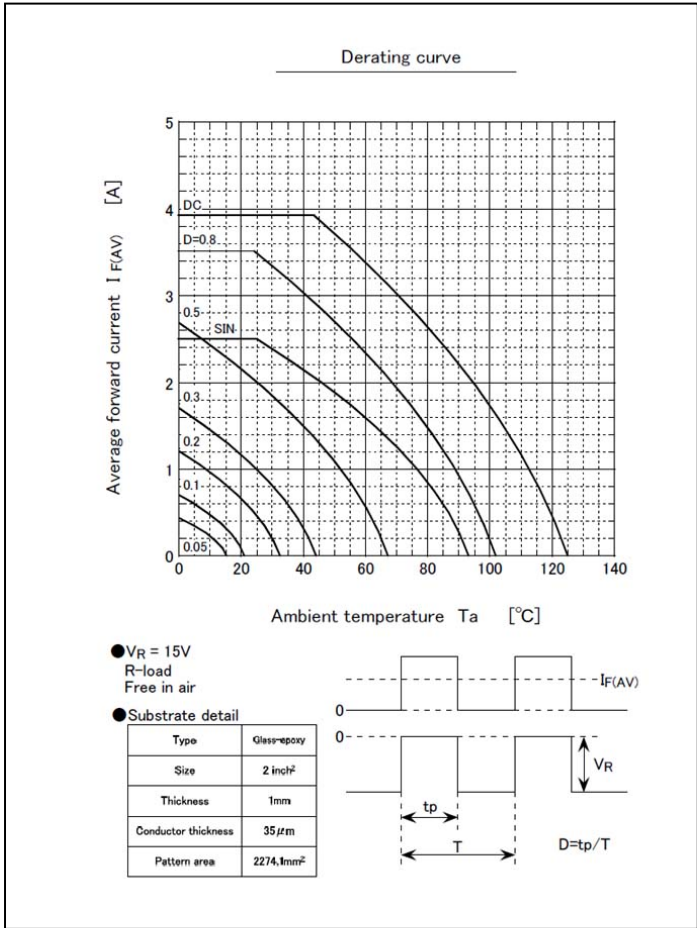
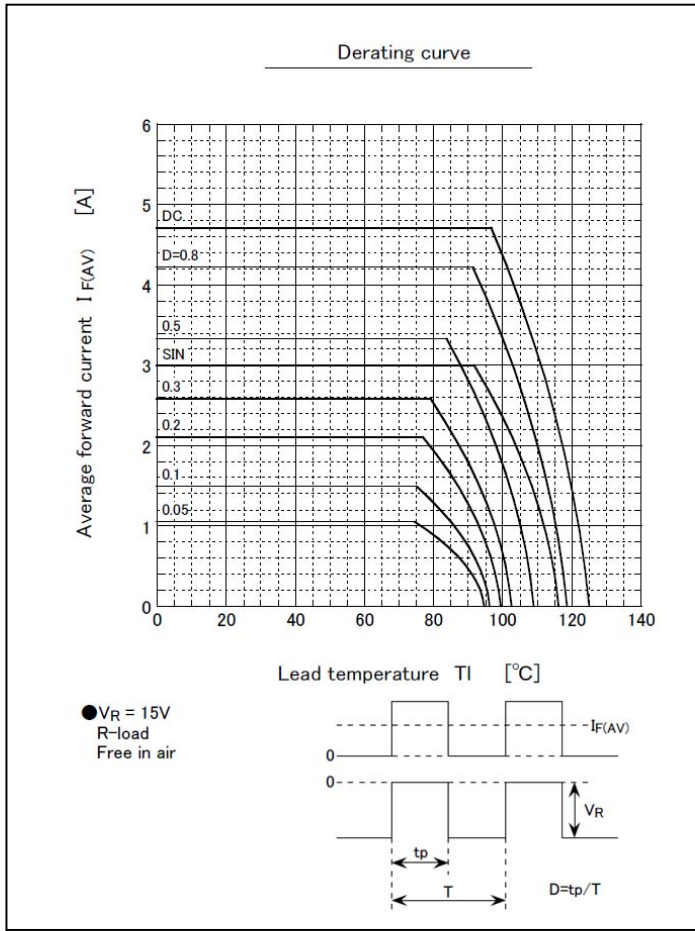
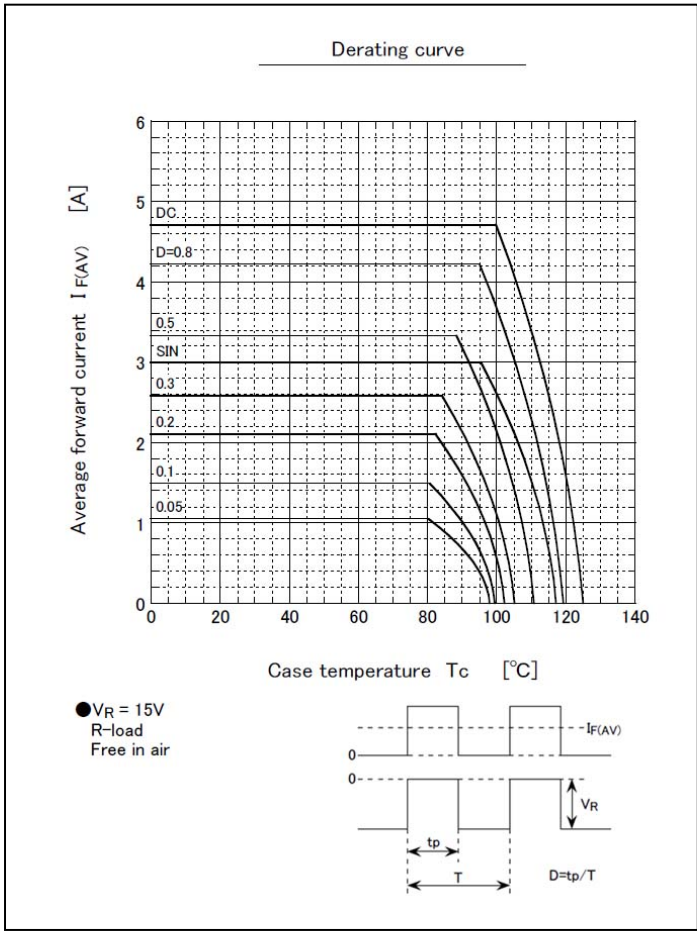
Electrical Characteristics (unless otherwise specified : Tc=25°C)

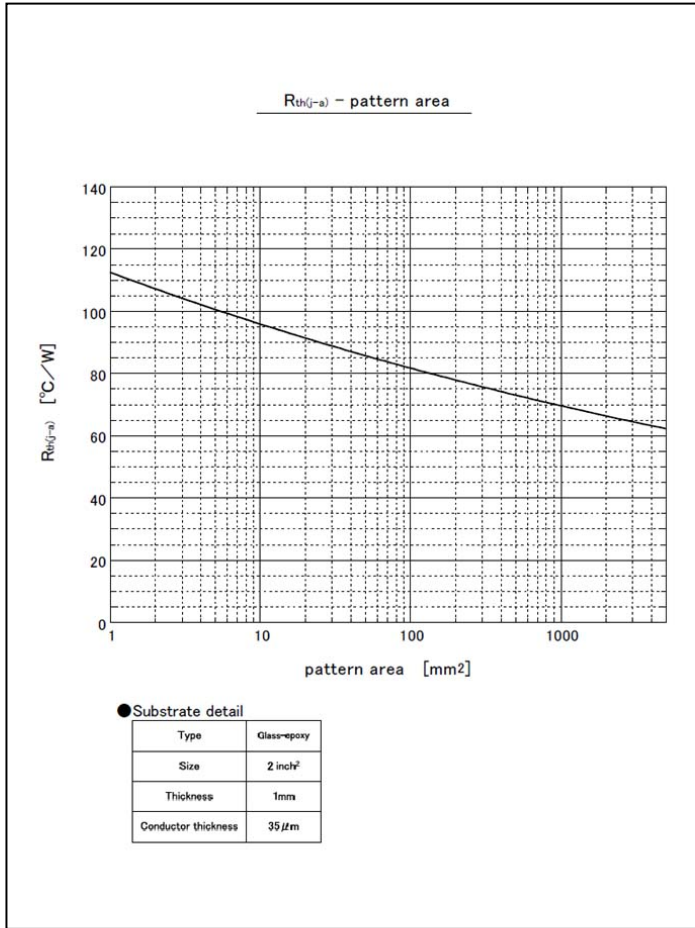
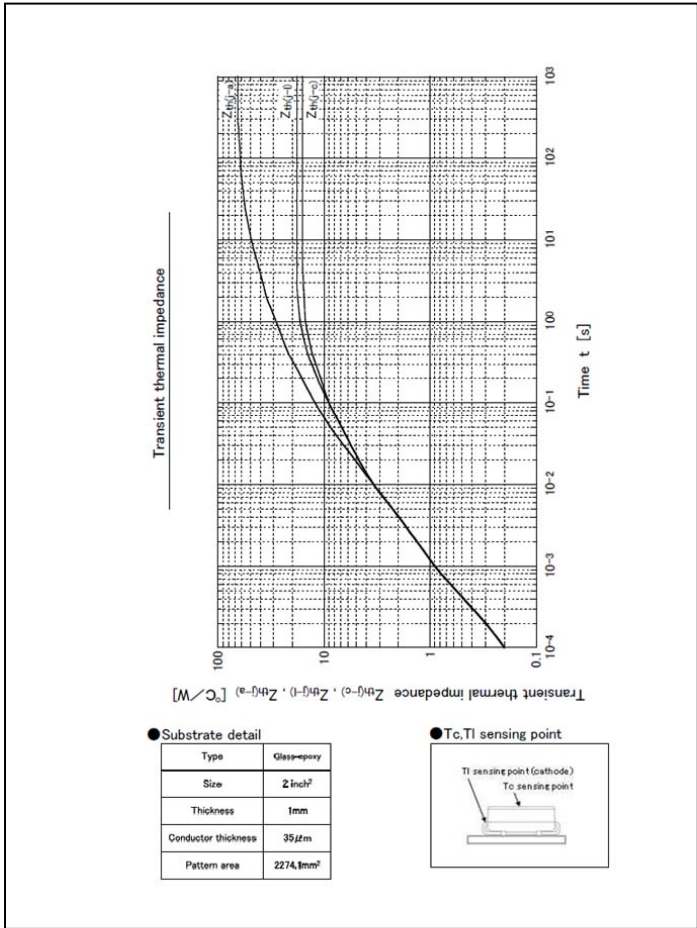
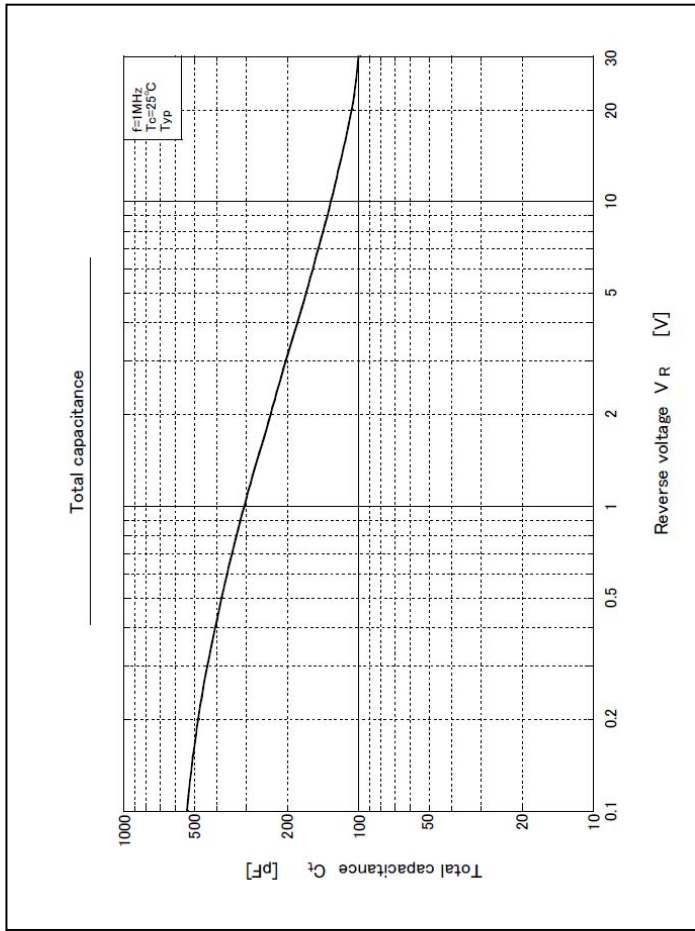
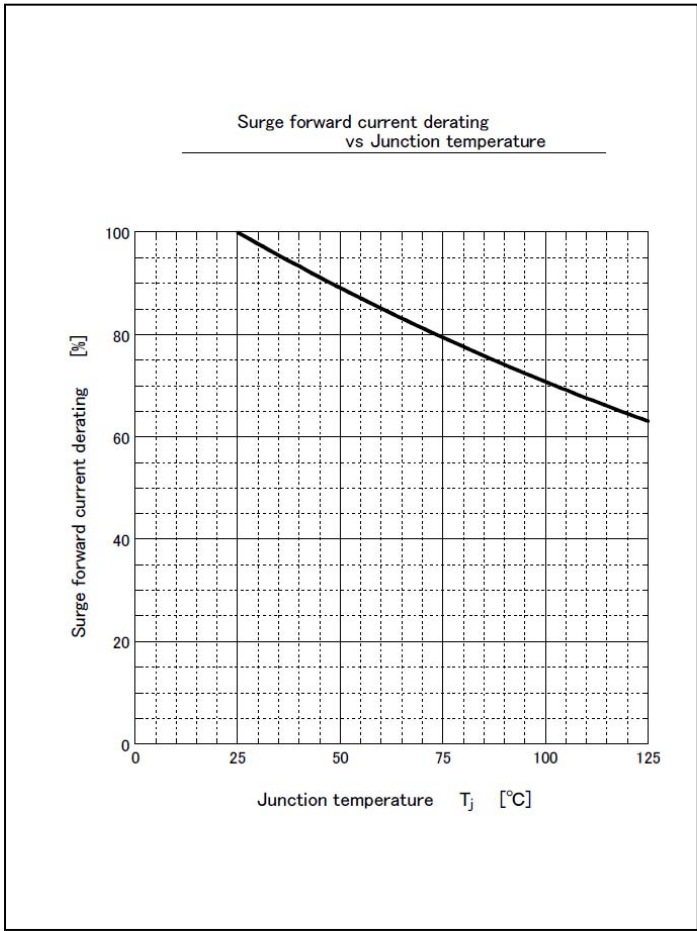
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=3A, Pulse measurement			0.36	V
Forward voltage	V_F	IF=1A, Pulse measurement			0.3	V
Reverse current	I_R	VR=30V, Pulse measurement			2	mA
Total capacitance	C_t	f=1MHz, VR=10V		130		pF
Thermal resistance	Rth(j-c)	Junction to case			16	°C/W
Thermal resistance	Rth(j-l)	Junction to lead			18	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate ※			65	°C/W

※ :See the original Specifications

CHARACTERISTIC DIAGRAMS







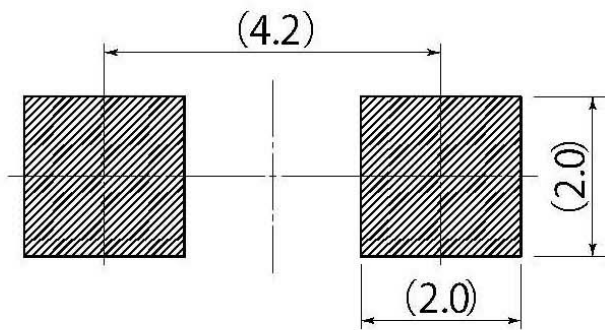
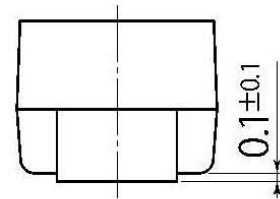
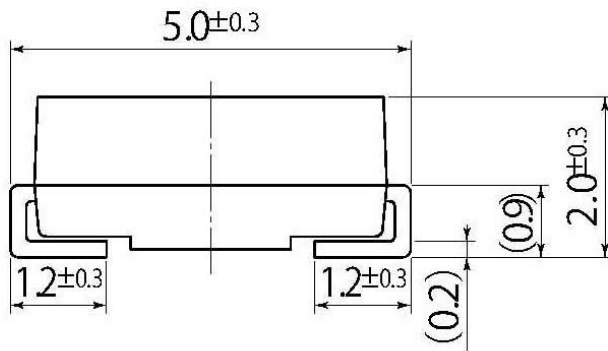
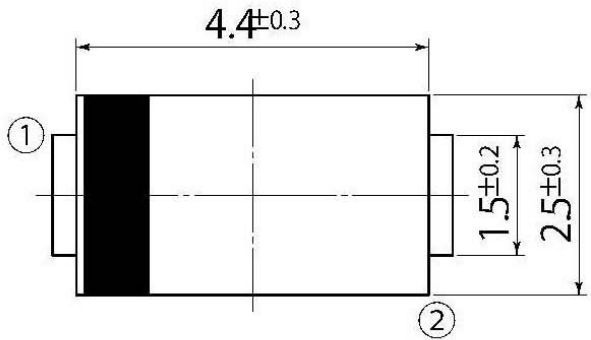
Outline Dimensions

unit:mm

scale: 10/1

B3

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



Referential Soldering Pad

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

Notes

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