

D3CE60VE

General Rectifying Diodes

600V, 3.5A

Feature

- Ultra-small SMD
- Ultra-thin PKG=1.0mm
- Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

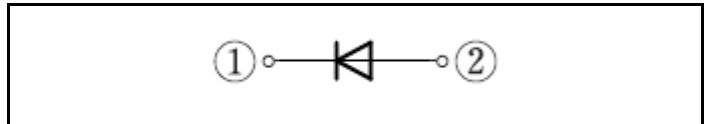
OUTLINE

Package (House Name): CE

Package (JEITA Code): SC-110B



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T _{stg}		-55 to 150	°C
Junction temperature	T _j		-55 to 150	°C
Repetitive peak reverse voltage	V _{RRM}		600	V
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, Tl=93°C	3.5	A
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, Tl=103°C	3	A
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C ※	1.2	A
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C ※	0.8	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	60	A
Surge forward current	I _{FSM1}	tp=1ms, sine wave, Non-repetitive, peak value, Tj=25°C	120	A

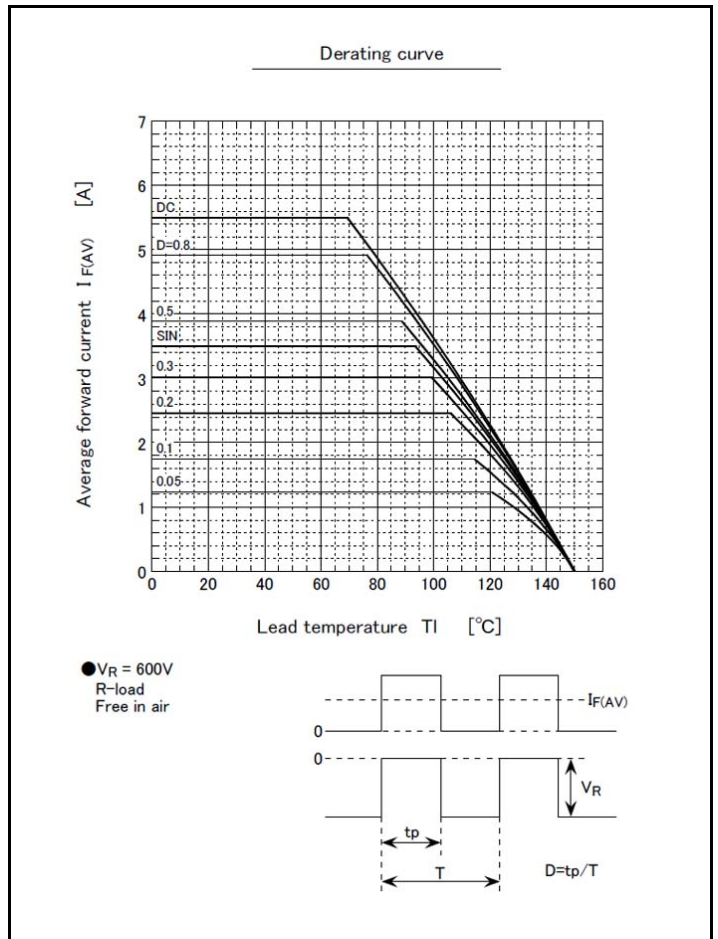
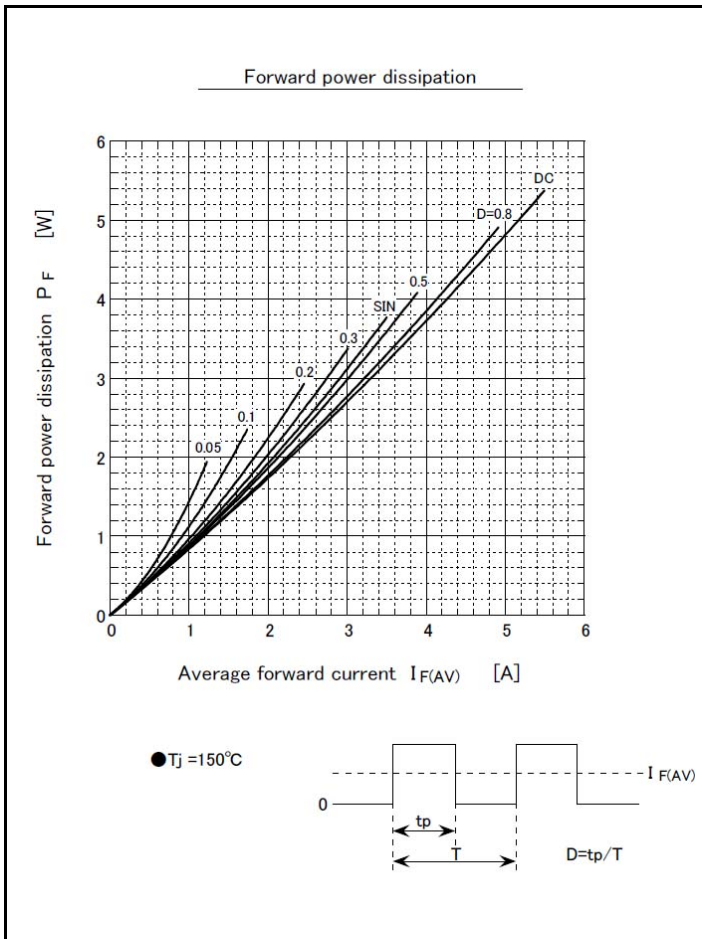
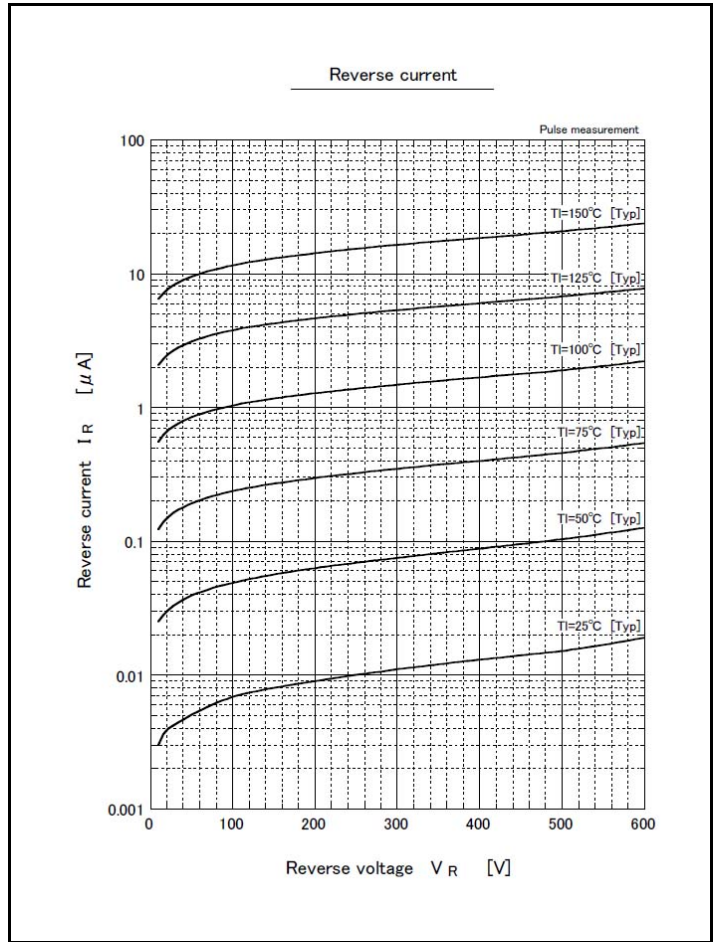
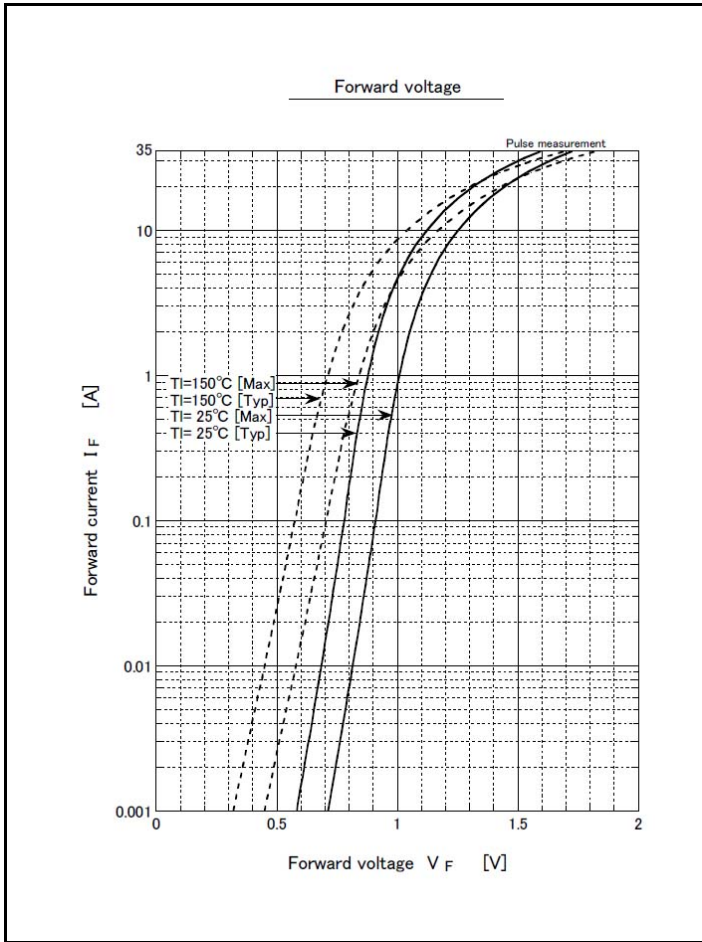
※ :See the original Specifications

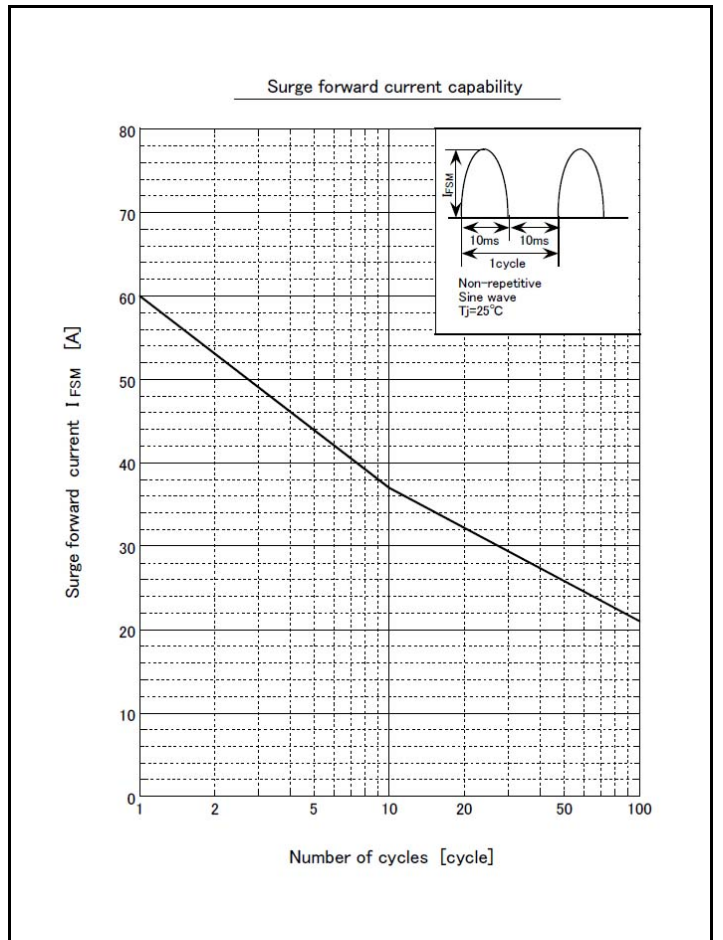
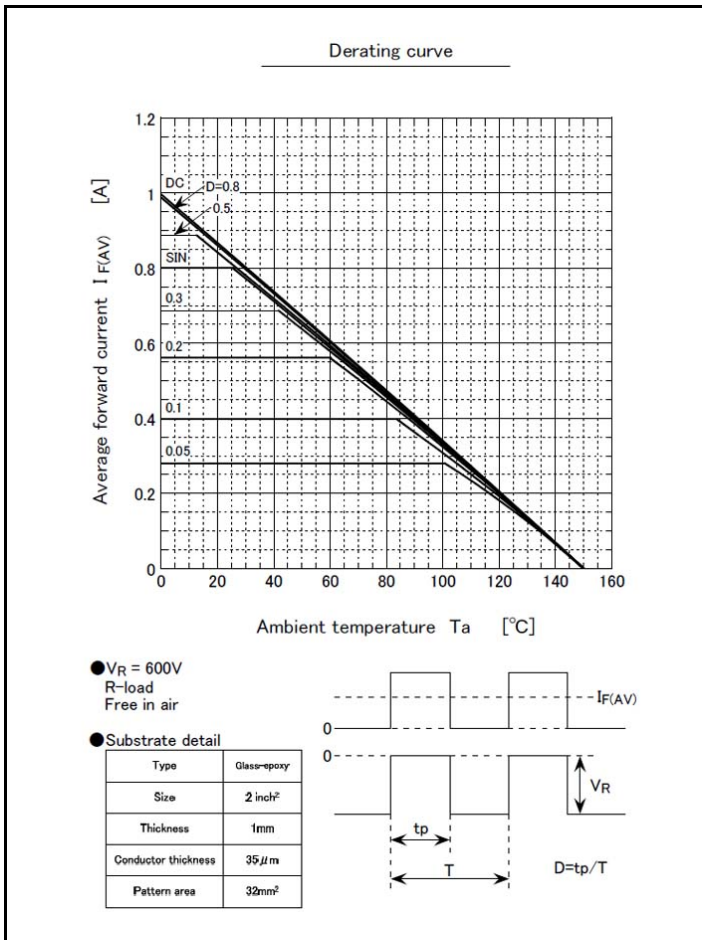
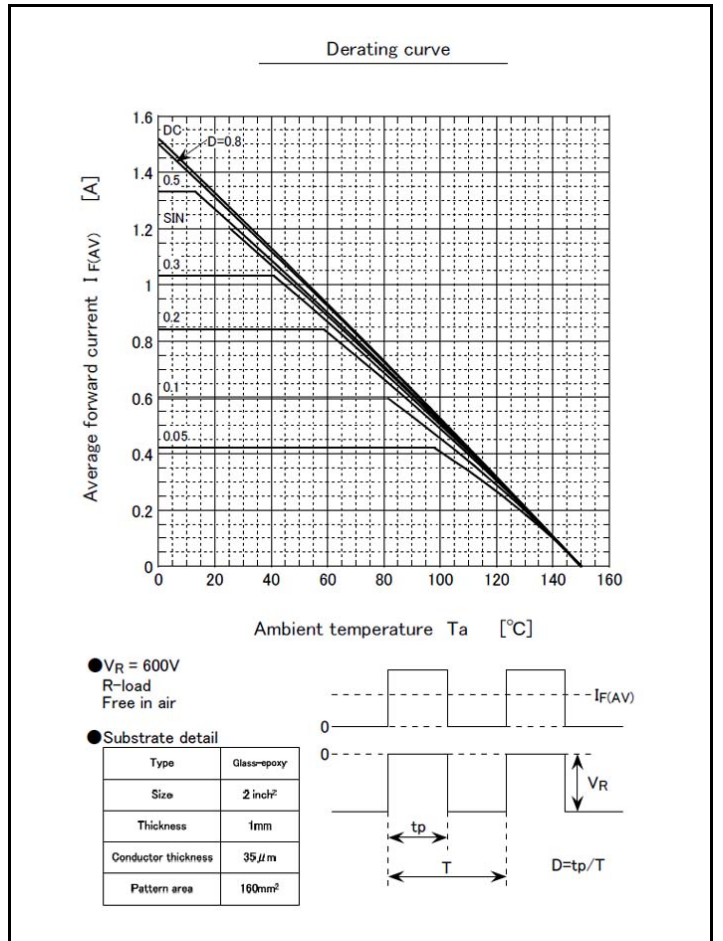
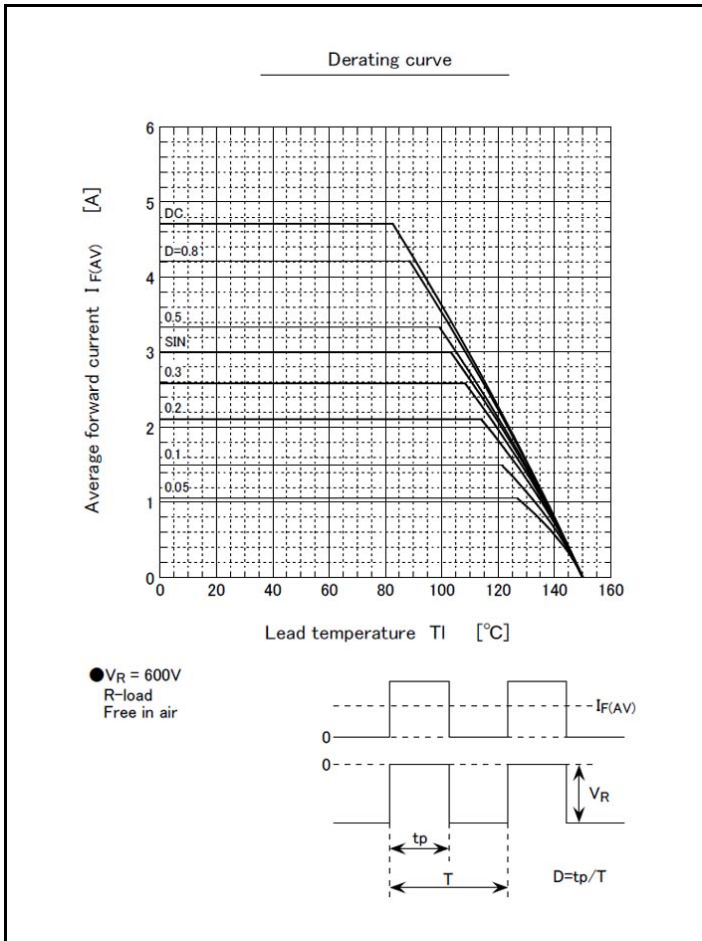
Electrical Characteristics (unless otherwise specified : Tl=25°C)

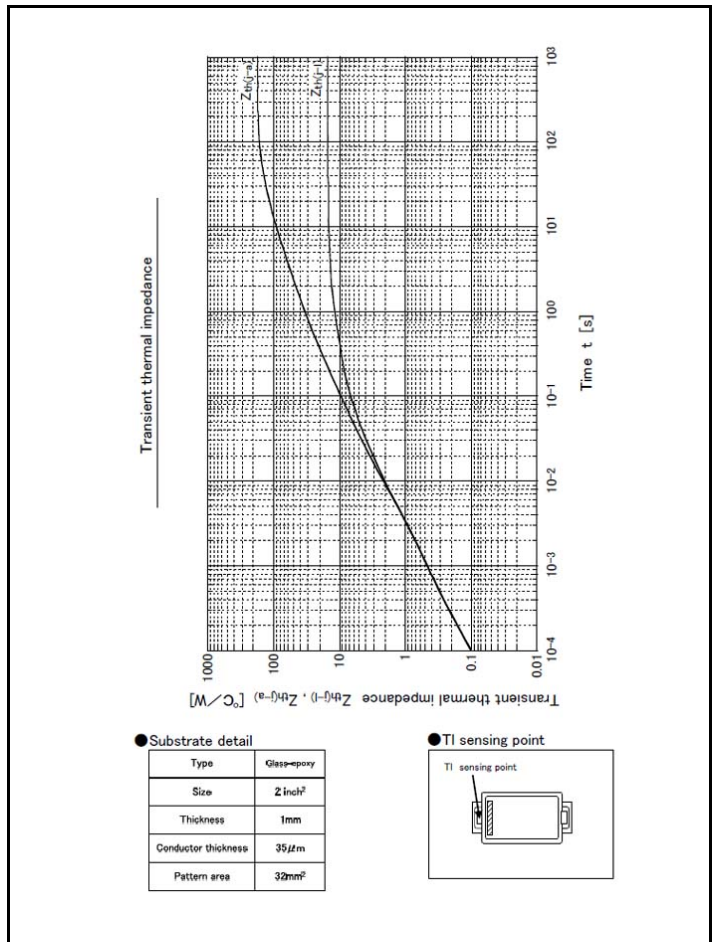
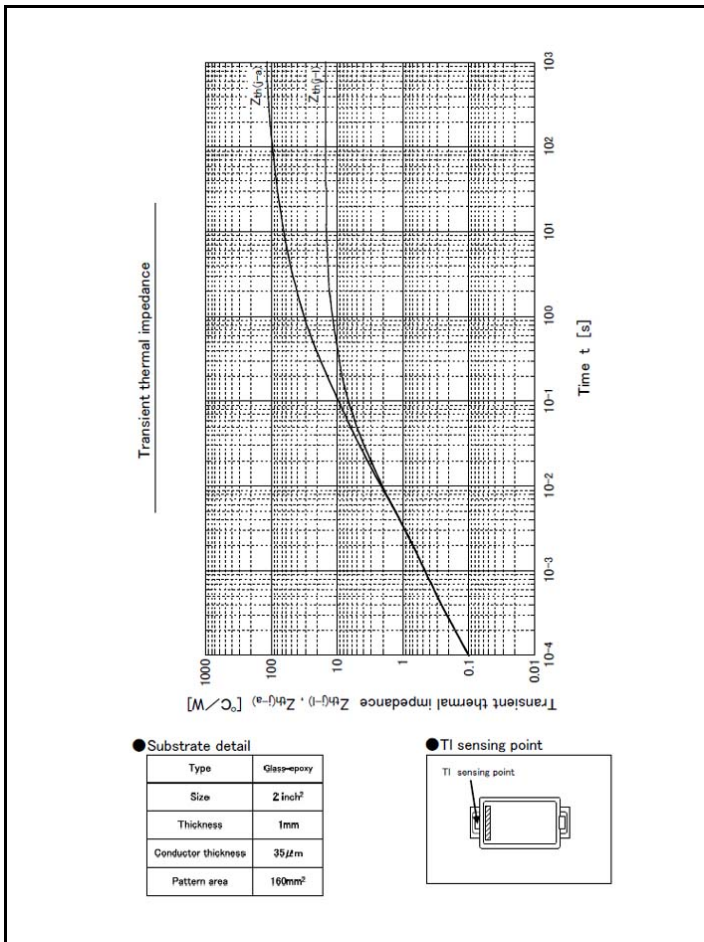
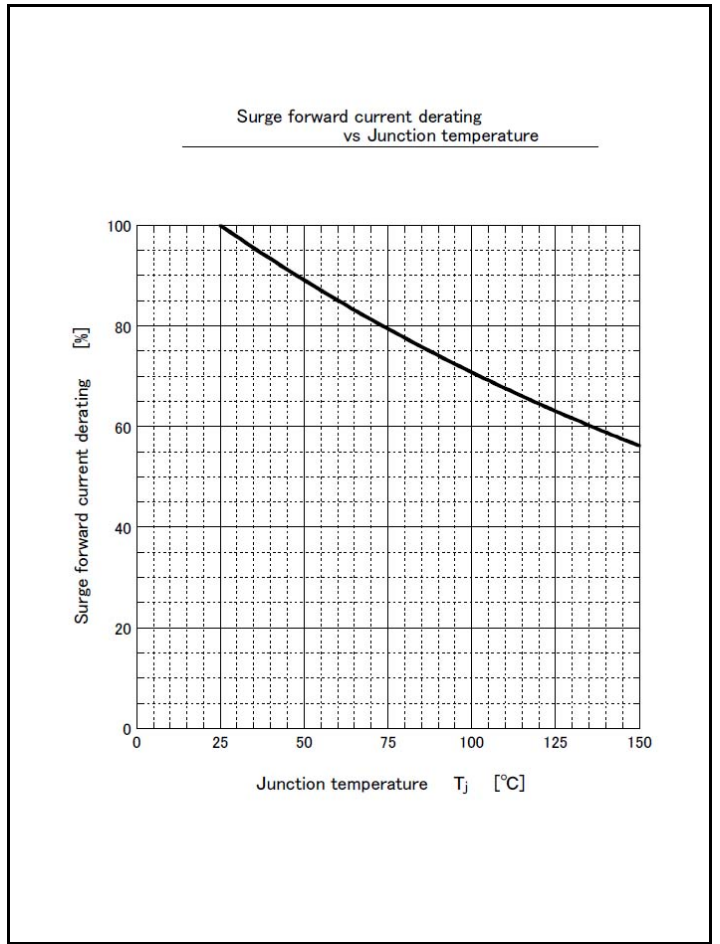
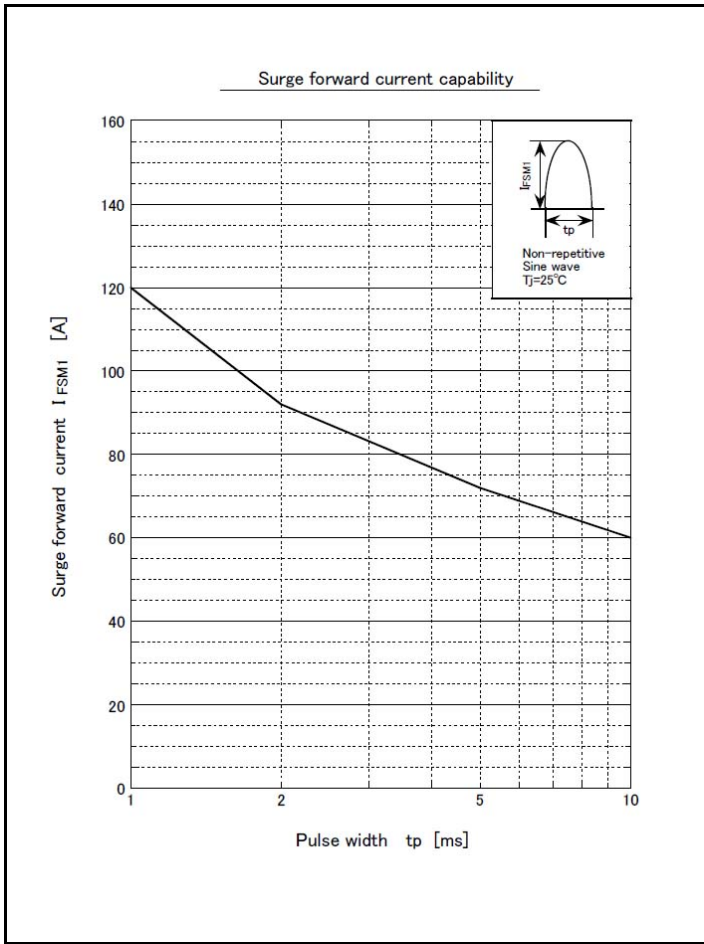
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	$I_F=3.5A$, Pulse measurement			1.1	V
Reverse current	I_R	$V_R=600V$, Pulse measurement			10	μA
Electro static discharge Capability	V_{ESD}	$C=330pF$, $R=330\Omega$, Polarity \pm , Aerial discharge		25		kV
Thermal resistance	$R_{th(j-l)}$	Junction to lead			15	$^{\circ}C/W$
Thermal resistance	$R_{th(j-a)}$	Junction to ambient, On glass-epoxy substrate ※			115	$^{\circ}C/W$
Thermal resistance	$R_{th(j-a)}$	Junction to ambient, On glass-epoxy substrate ※			172	$^{\circ}C/W$

※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

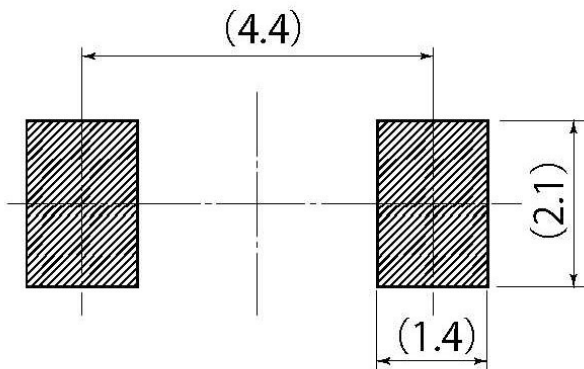
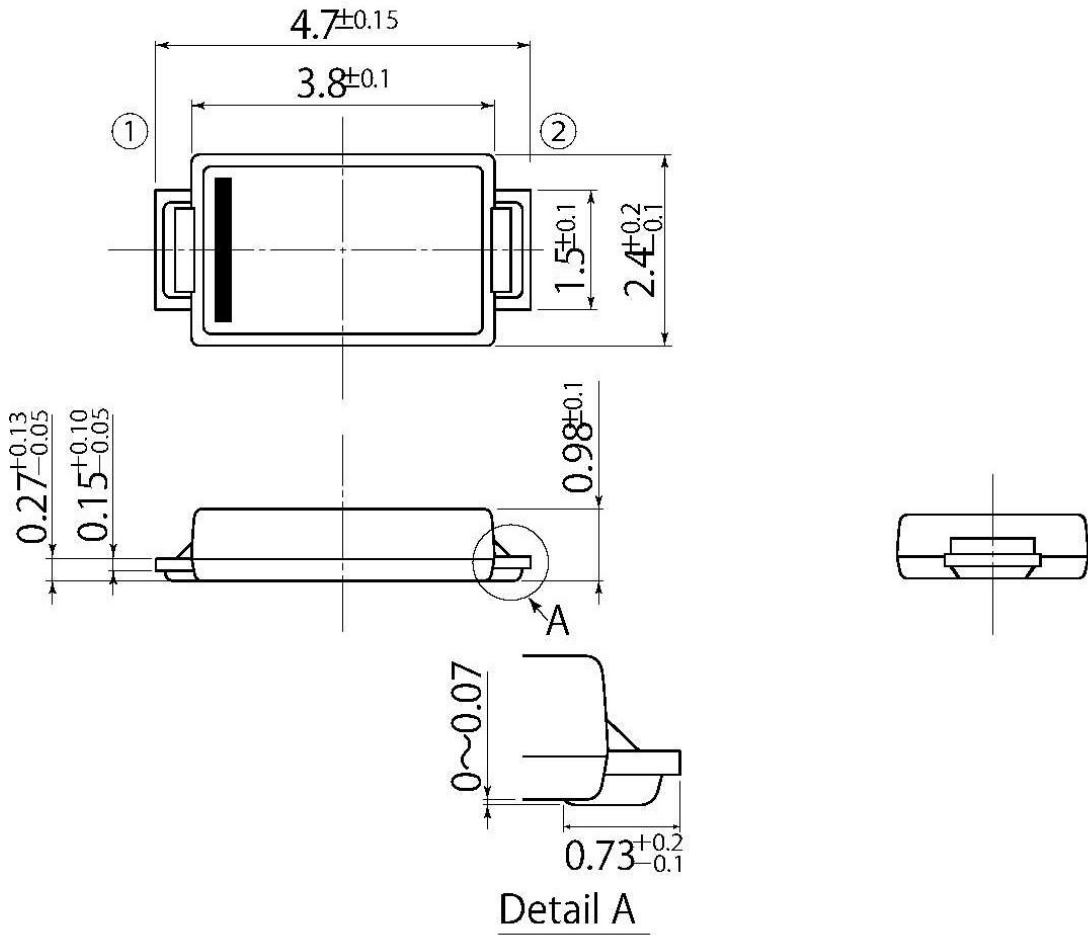






B5

JEDEC Code	—
JEITA Code	SC-110B
House Name	CE



Referential Soldering Pad

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

Notes

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