ST06-18CE

TVS

26A, 600W

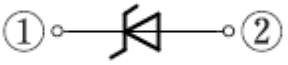
Feature

- Peak pulse power:600W
- Small SMD
- 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	Tstg		-55 to 175	°C
Operating junction temperature	Tj		-55 to 175	°C
Maximum surge reverse current	I_{RSM}	10/1000μs, Non-repetitive, Exponential wave ※	26	A
Maximum surge reverse power	P_{RSM}	10/1000μs, Non-repetitive	600	W
Continuous (direct) reverse voltage	$V_{R(DC)}$		13	V

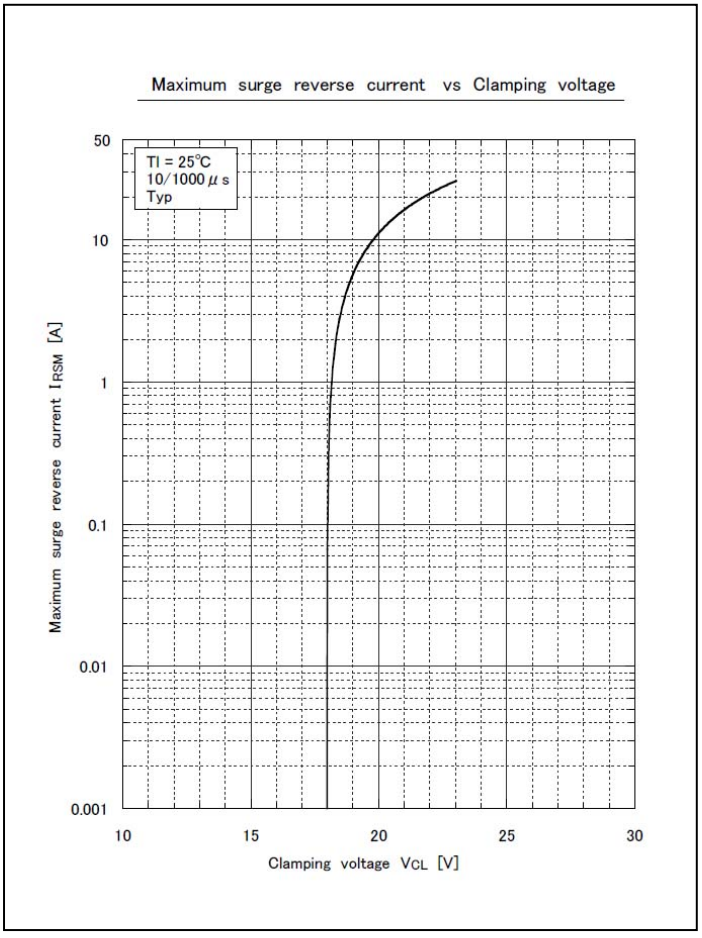
※ ：See the original Specifications

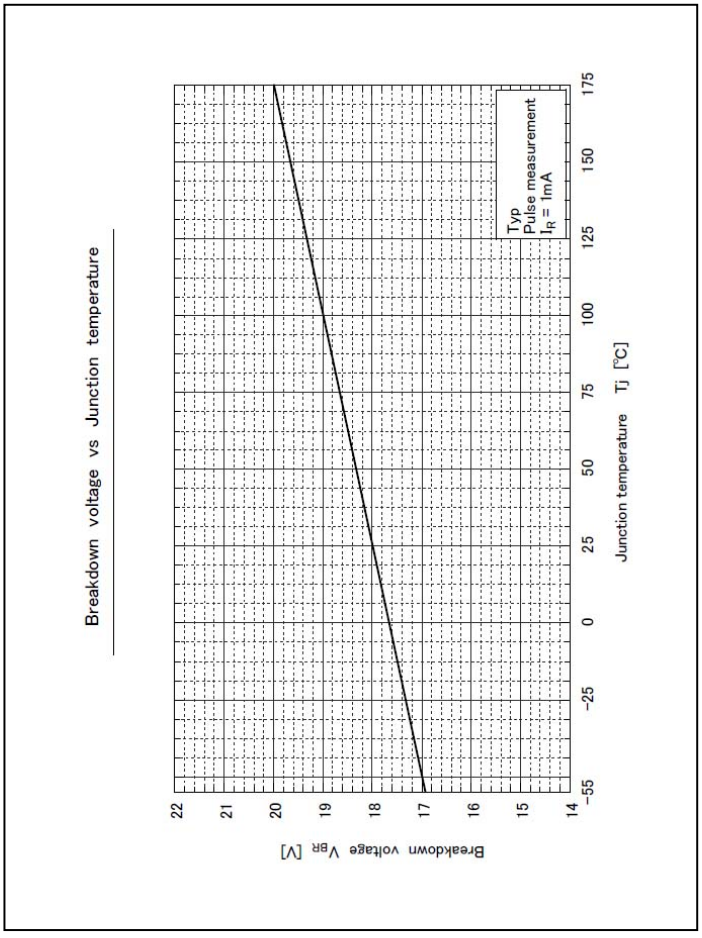
Electrical Characteristics (unless otherwise specified : Tl=25°C)

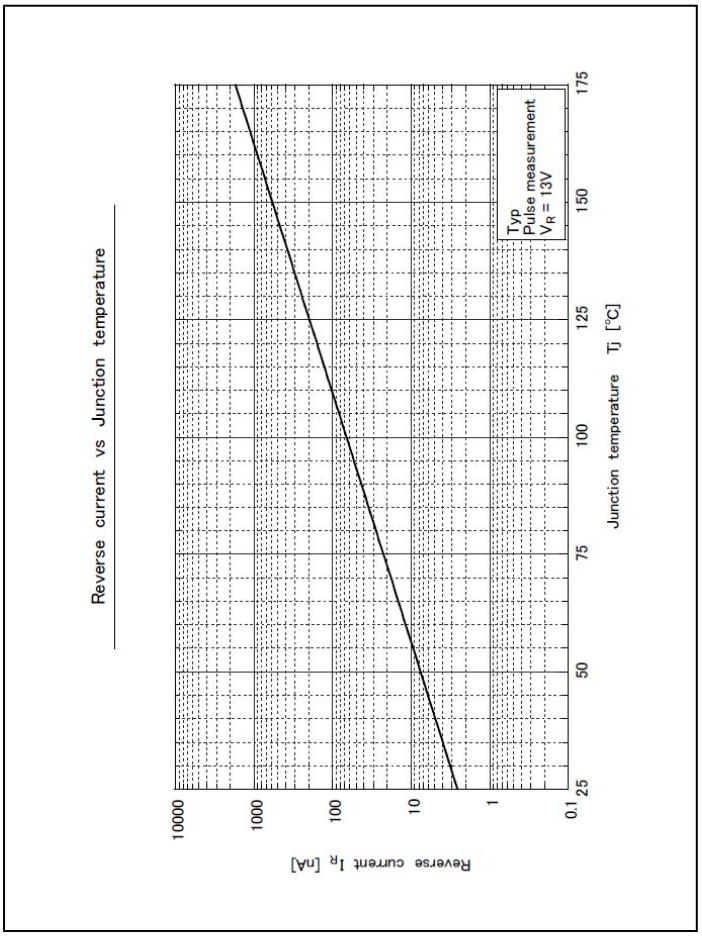
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Breakdown voltage	V_{BR}	IR=1mA, Pulse measurement	16.8		19.1	V
Reverse current	I_R	VR=13V, Pulse measurement			5	μA
Electrostatic discharge capability	V_{ESD}	C=330pF, R=330Ω, Polarity±, Aerial discharge ※		30		kV
Thermal resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate			15	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate ※			115	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate ※			172	°C/W

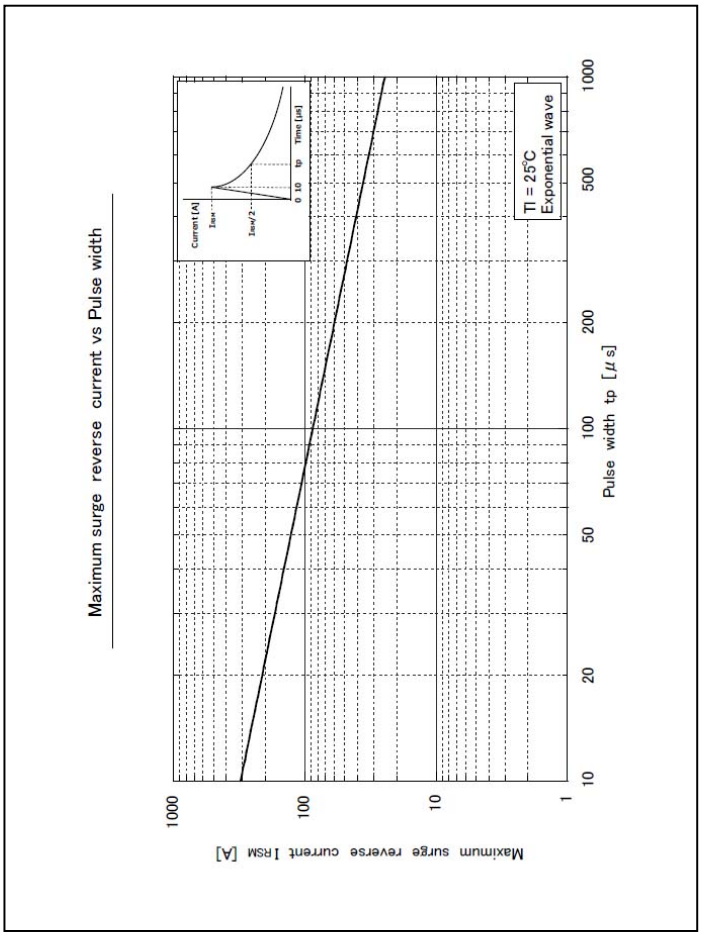
※ ：See the original Specifications

CHARACTERISTIC DIAGRAMS









Total capacitance vs Frequency

Total capacitance vs Reverse voltage

Transient thermal impedance vs Time

Substrate detail

Type	Glass-epoxy
Size	2 inch²
Thickness	1mm
Conductor thickness	35μm
Pattern area	160mm²

Tl sensing point

Transient thermal impedance vs Time

Substrate detail

Type	Glass-epoxy
Size	2 inch²
Thickness	1mm
Conductor thickness	35μm
Pattern area	32mm²

Tl sensing point

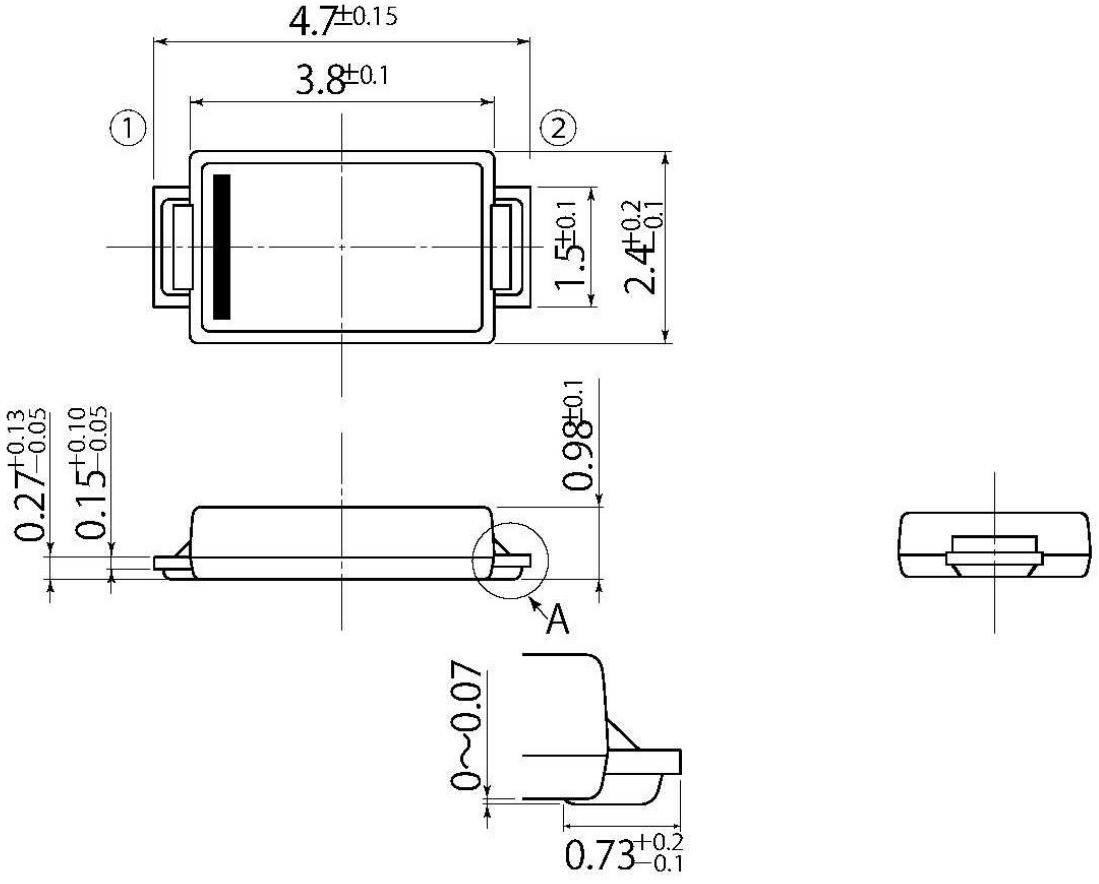
Outline Dimensions

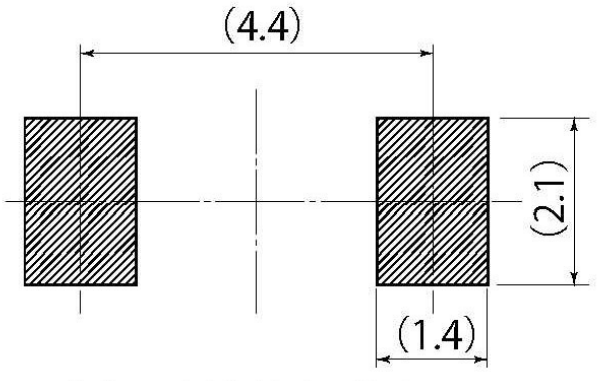
unit:mm

scale: 10/1

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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