

ST06-33CE

TVS 14A, 600W

Feature

- Peak pulse power:600W
- Small SMD
- Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit



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

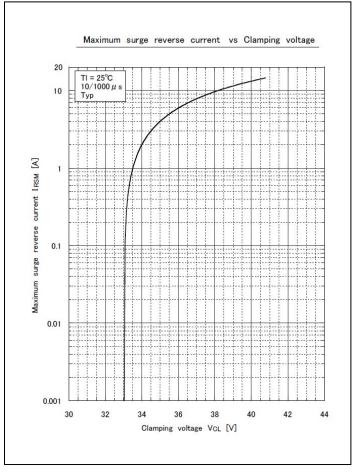
Item	Symbol	Conditions	Ratings	Unit
Storage temperature	Tstg		-55 to 175	°C
Operating junction temperature	Tj		-55 to 175	°C
Maximum surge reverse current	I _{RSM}	10/1000μs, Non-repetitive ※	14	А
Maximum surge reverse power	P _{RSM}	10/1000μs, Non-repetitive	600	W
Continuous (direct) reverse voltage	V _{R(DC)}		25	V

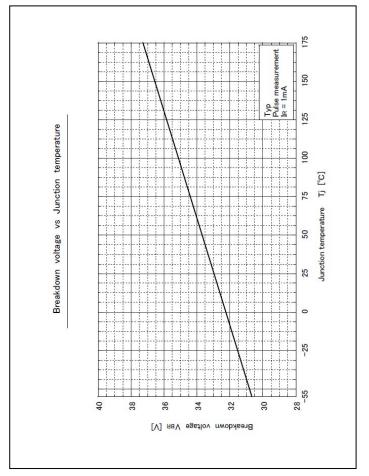
[※] ∶See the original Specifications

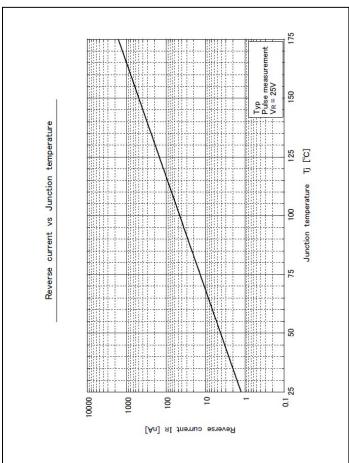
Electrical Characteristics (unless otherwise specified : Tl=25°C)

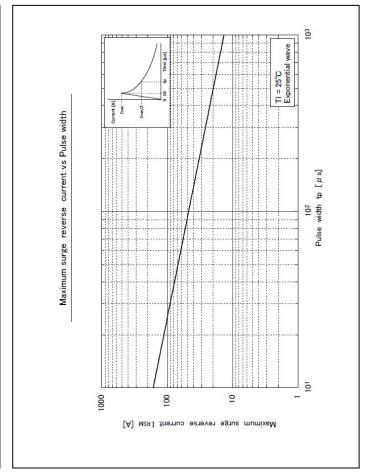
Item	Symbol	Conditions	Ratings			l lmit
			MIN	TYP	MAX	Unit
Breakdown voltage	V_{BR}	IR=1mA, Pulse measurement	31		35	٧
Reverse current	I _R	VR=25V, Pulse measurement			5	μΑ
Electrostatic discharge capability	V _{ESD}	C=330pF, R=330Ω, Polarity±, Aerial discharge ※		30		kV
Thermal resistance	Rth(j-l)	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

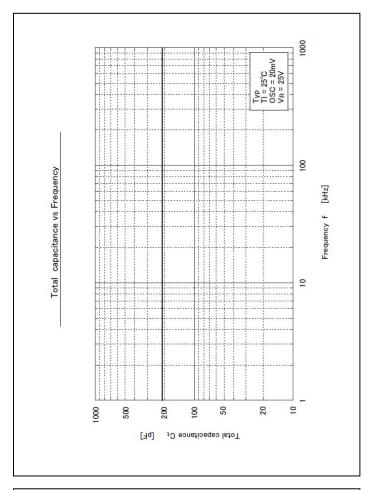
CHARACTERISTIC DIAGRAMS

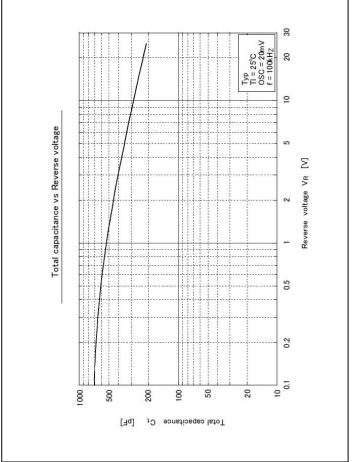


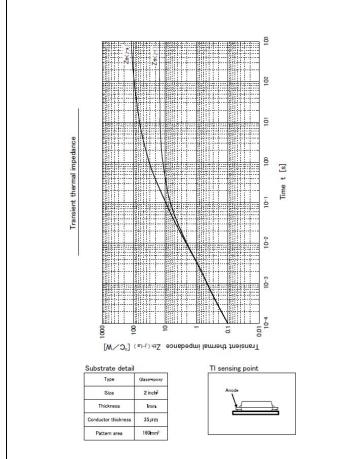


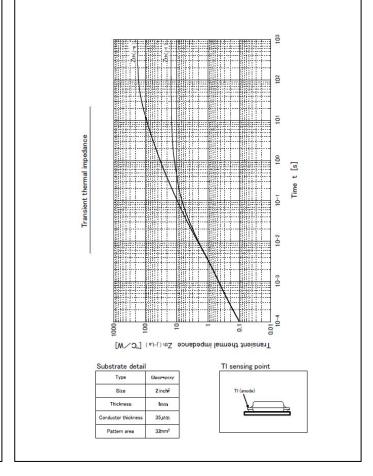










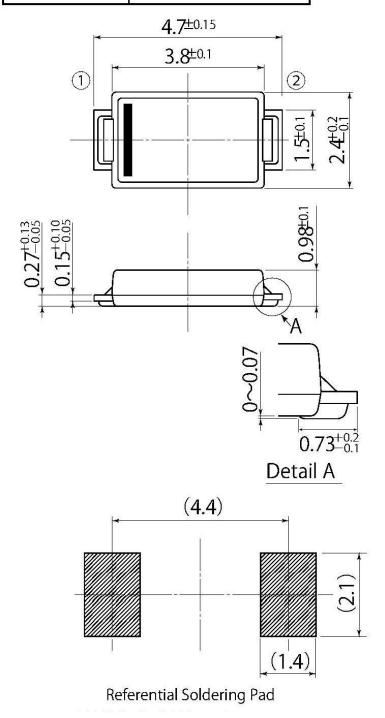


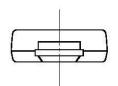
unit:mm

scale: 10/1

B5

JEDEC Code	(<u></u>)
JEITA Code	SC-110B
House Name	CE





 $[\]bullet$ Optimize soldering pad to the board design and soldering condition.

Notes

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[Specific applications]

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