

ST02-43G1

TVS

3.5A, 200W

Feature

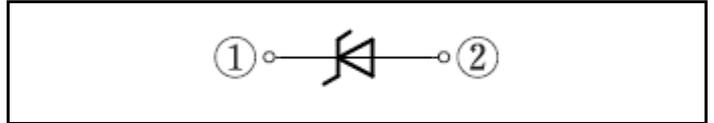
- Peak pulse power:200W
- Ultra-small SMD
- Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): G1F
Package (JEDEC Code): DO-219AB similar
Package (JEITA Code): SC-109



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	3.5	A
Maximum surge reverse power	P _{RSM}	10/1000μs, Non-repetitive	200	W
Continuous (direct) reverse voltage	V _{R(DC)}		33	V
Power dissipation	P		1	W

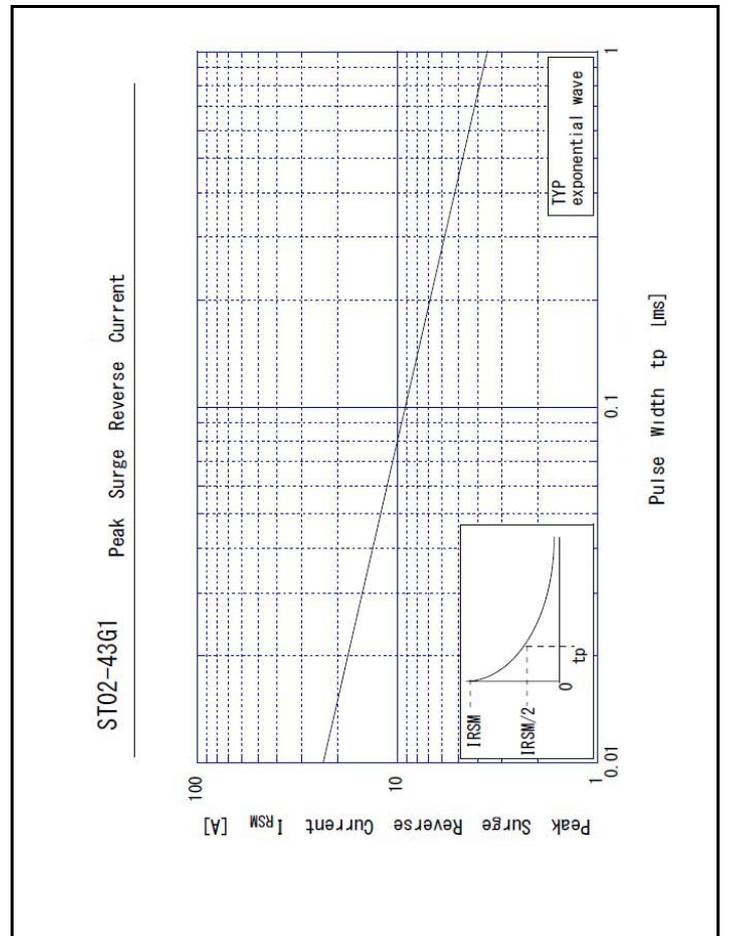
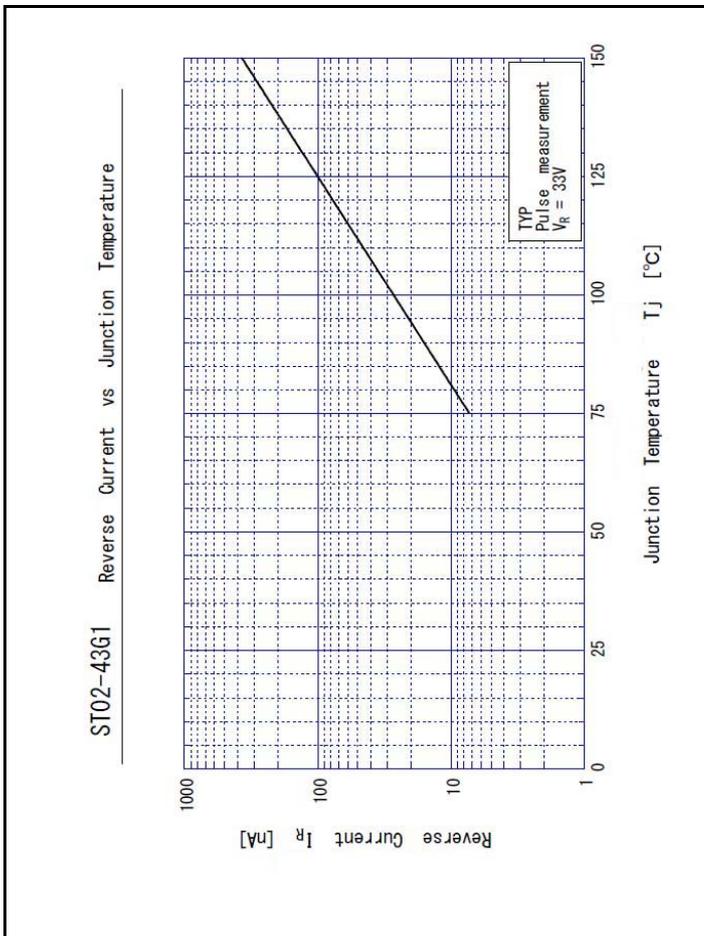
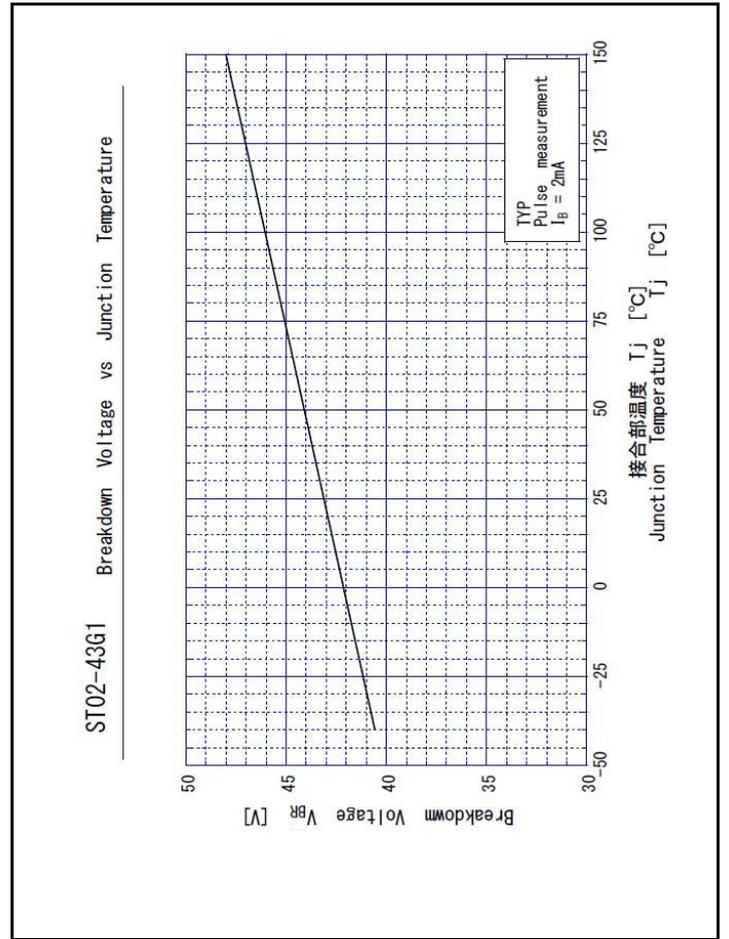
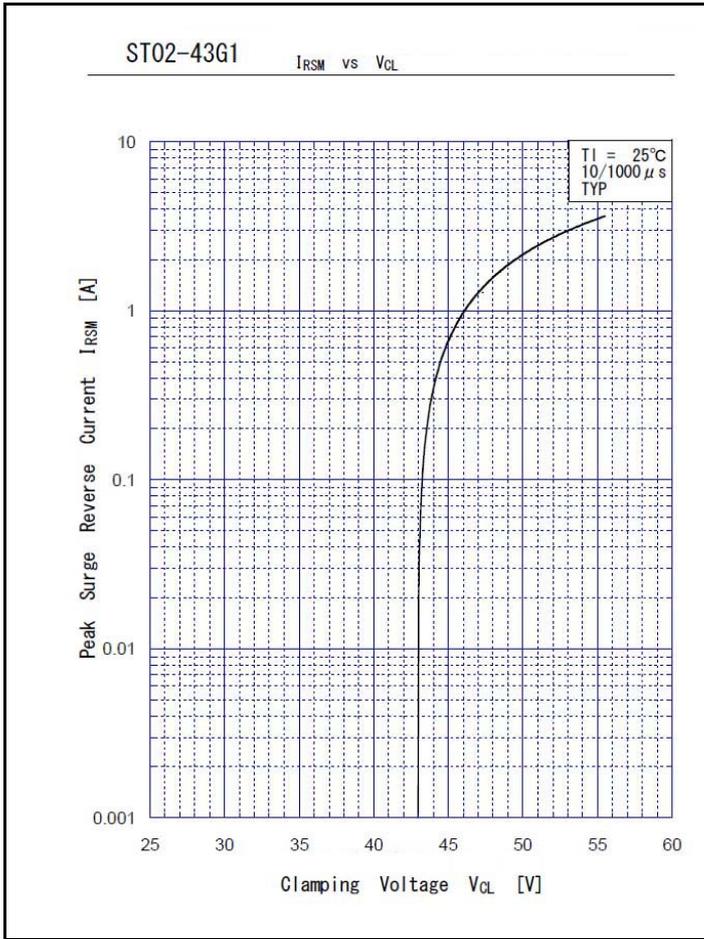
* :See the original Specifications

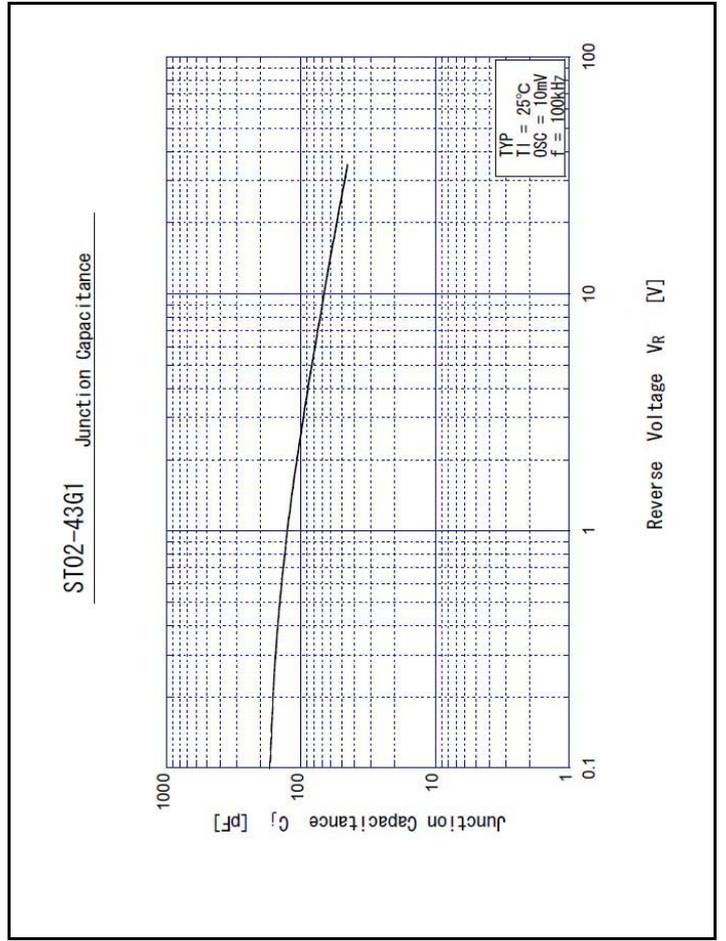
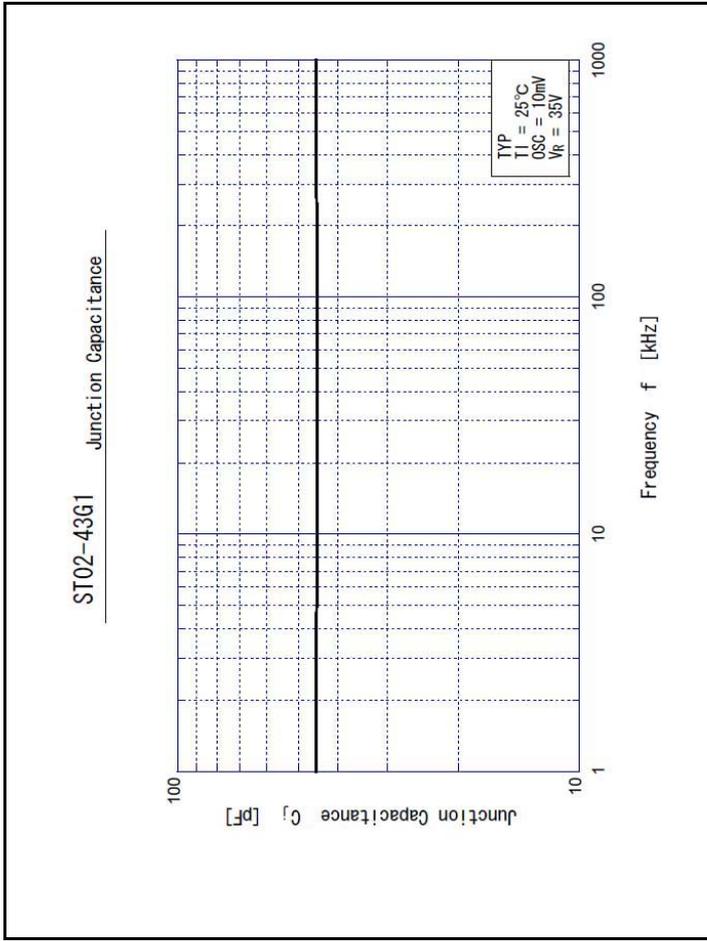
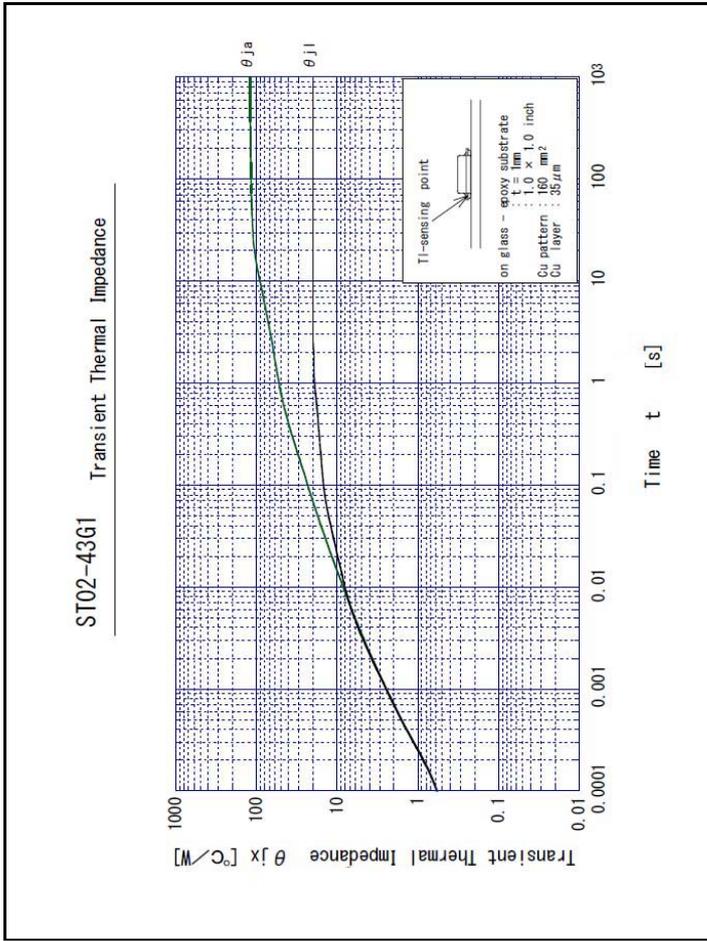
Electrical Characteristics (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Breakdown voltage	V _{BR}	I _R =2mA	40	43	45	V
Reverse current	I _R	V _R =33V, Pulse measurement			5	μA
Thermal resistance	R _{th(j-l)}	Junction to lead, On glass-epoxy substrate			20	°C/W
Thermal resistance	R _{th(j-a)}	Junction to ambient, On glass-epoxy substrate *			120	°C/W
Restriction voltage	V _{CL}	10/1000μs, I _{pp} =3.5A			57	V

* :See the original Specifications

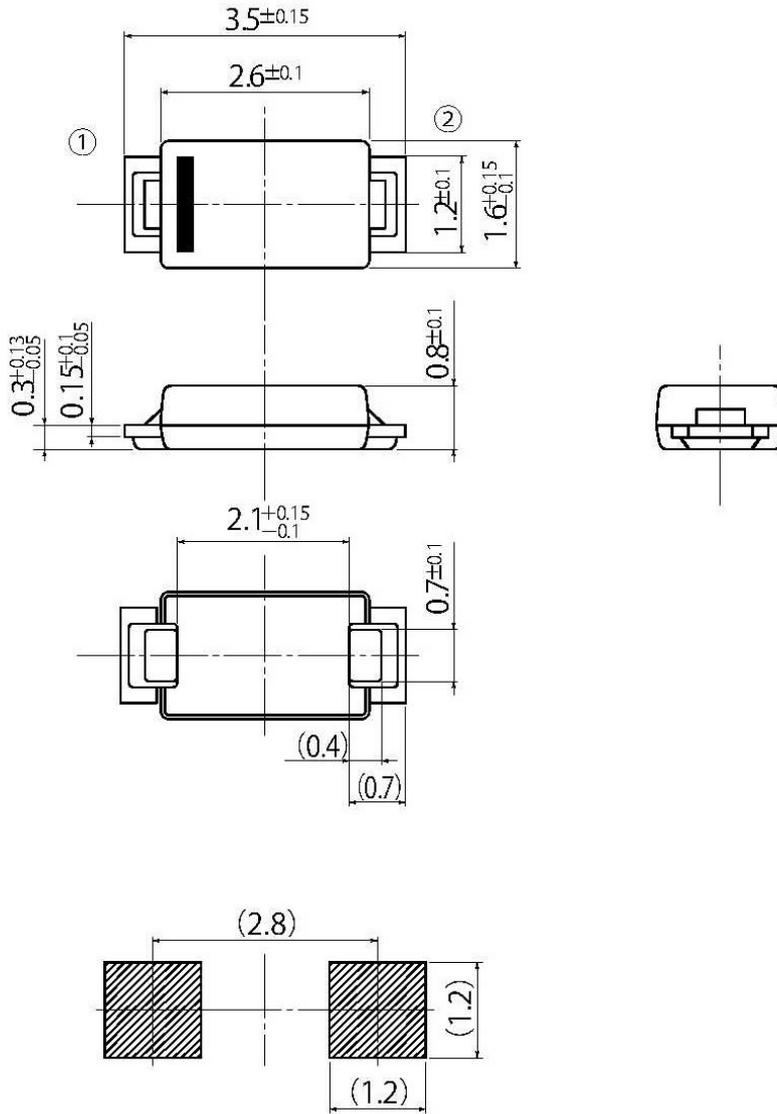
CHARACTERISTIC DIAGRAMS





B1

JEDEC Code	DO-219AB similar
JEITA Code	SC-109
House Name	G1F



Referential Soldering Pad

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

Notes

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