

ST02-39G1

TVS

3.8A, 200W

Feature

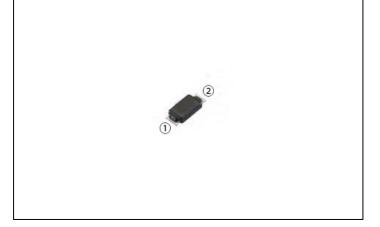
- Peak pulse power:200W
- Ultra-small SMD
- · Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

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)

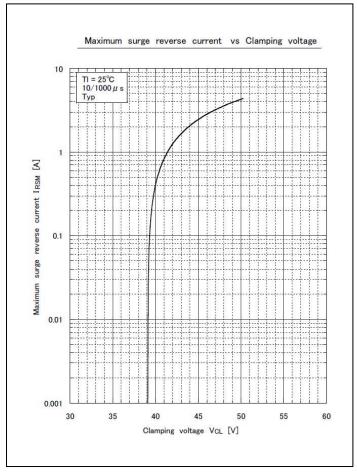
Item	Symbol	Conditions	Ratings	Unit
Storage temperature	Tstg		-55 to 175	°C
Operating junction temperature	Tj		-55 to 175	°C
Maximum surge reverse current	I _{RSM}	10/1000μs, Non-repetitive ※	3.8	А
Maximum surge reverse power	P _{RSM}	10/1000μs, Non-repetitive ※	200	W
Continuous (direct) reverse voltage	V _{R(DC)}		30	V

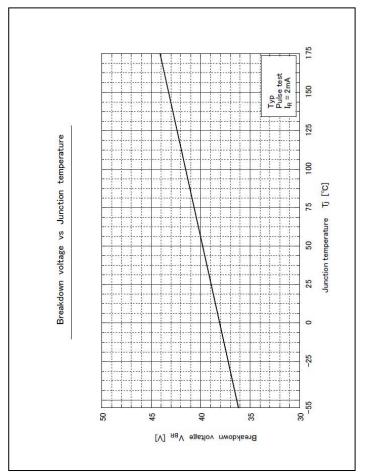
*** : See the original Specifications**

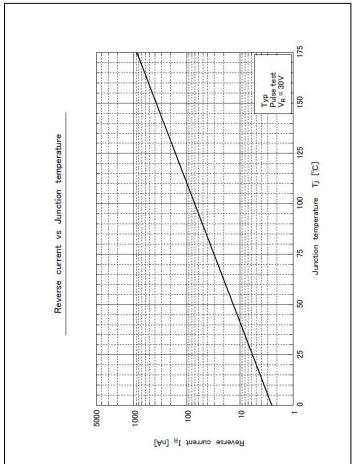
Electrical Characteristics (unless otherwise specified: Tl=25°C)

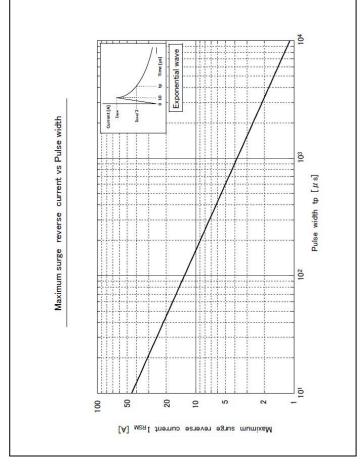
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Unit
Breakdown voltage	V_{BR}	IR=2mA, Pulse measurement	37		41	V
Reverse current	I _R	VR=30V, Pulse measurement			5	μΑ
Thermal resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate *			20	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			120	°C/W

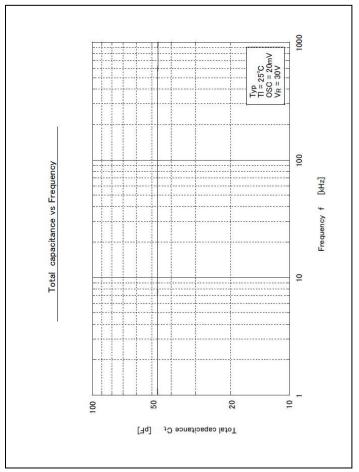
CHARACTERISTIC DIAGRAMS

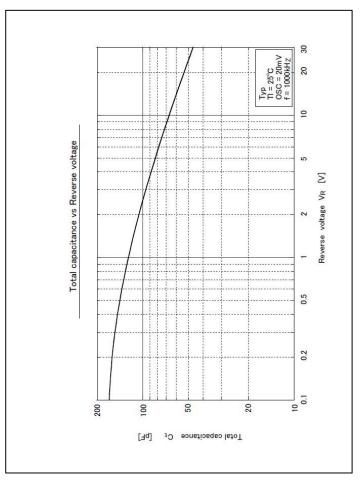


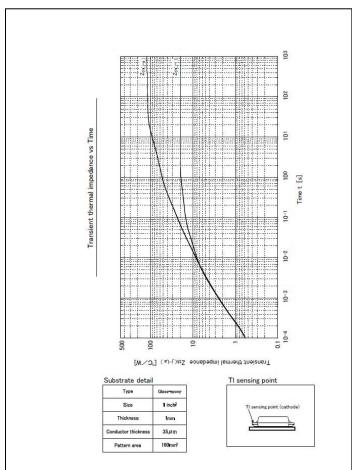










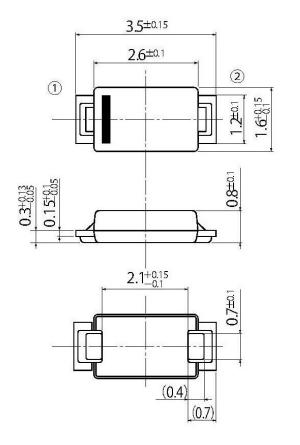


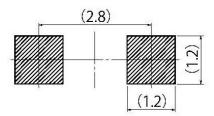
unit:mm

scale: 10/1

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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Transportation equipment (vehicles, ships, etc.), trunk-line communication equipment, traffic signal control systems, antidisaster/crime systems, safety equipment, medical equipment, etc.

[Specific applications]

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