

ST02-47G1

TVS 3.0A, 195W

Feature

- Peak pulse power:195W
- · Ultra-small SMD
- · Available for automotive use
- · Pb free terminal
- RoHS:Yes

OUTLINE

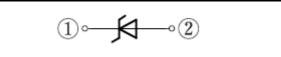
Package (House Name): G1F

Package (JEDEC Code): DO-219AB similar

Package (JEITA Code): SC-109



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : TI=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	Α
Maximum surge reverse power	P _{RSM}	10/1000μs, Non-repetitive *	195	W
Continuous (direct) reverse voltage	V _{R(DC)}		37	V

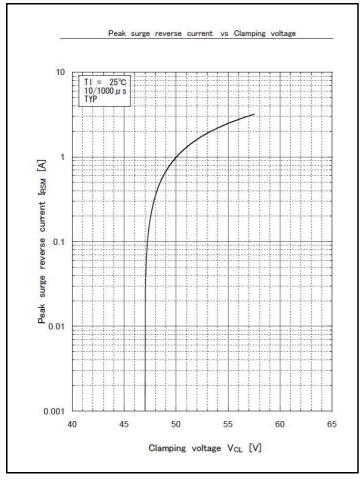
^{* :} See the original Specifications

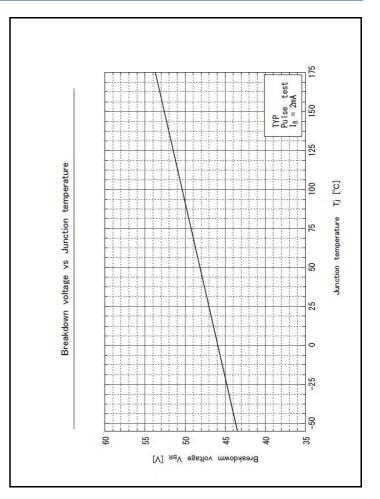
Electrical Characteristics (unless otherwise specified: TI=25°C)

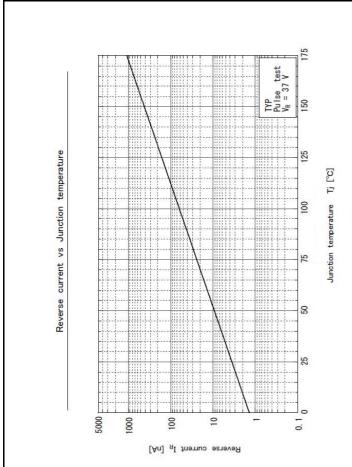
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Ome
Breakdown voltage	V _{BR}	IR=2mA, Pulse measurement	42		52	V
Reverse current	I _R	VR=37.0V, Pulse measurement			5	μΑ
Thermal resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate *			20	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			120	°C/W

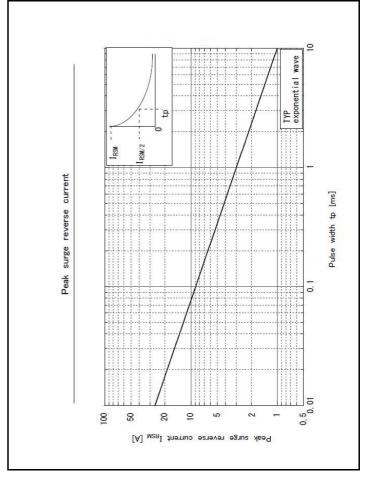
^{* :} See the original Specifications

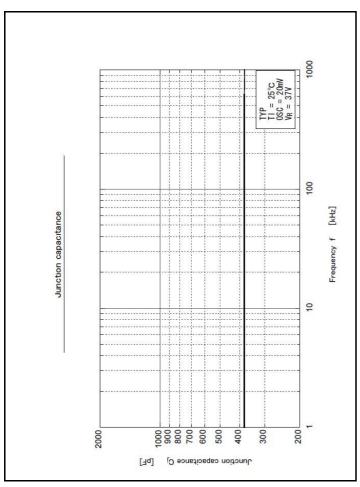
CHARACTERISTIC DIAGRAMS

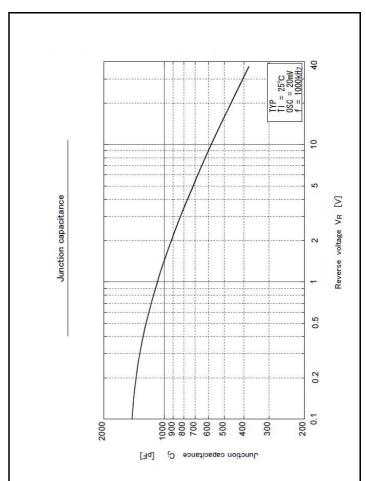


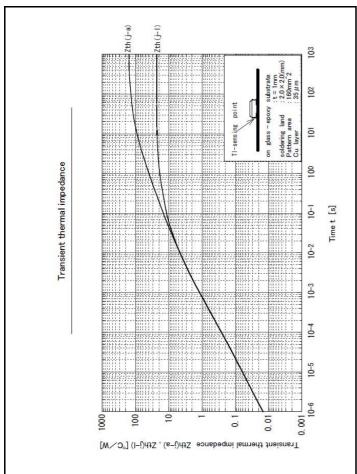








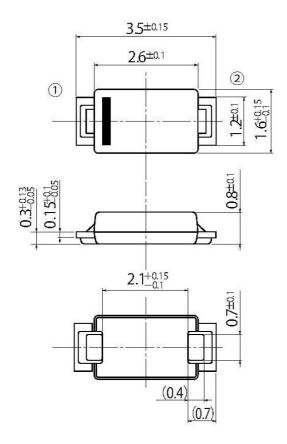


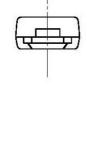


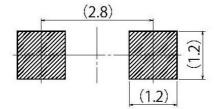
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JEDEC Code	DO-219AB similar		
JEITA Code	SC-109		
House Name	G1F		







Referential Soldering Pad

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

Notes

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(Special applications)

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(Specific applications)

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