

ST03-47F1

TVS 5.0A, 300W

Feature

- Peak pulse power:300W
- · Small SMD
- · Based on AEC-Q101
- · Pb free terminal
- RoHS:Yes

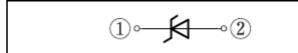
OUTLINE

Package (House Name): 1F

Package (JEDEC Code): DO-214AC



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 150	°C
Maximum surge reverse current	I _{RSM}	10/1000μs, Non-repetitive, Exponential wave *	5	Α
Maximum surge reverse power	P _{RSM}	10/1000μs, Non-repetitive *	300	W
Continuous (direct) reverse voltage	V _{R(DC)}		37	٧

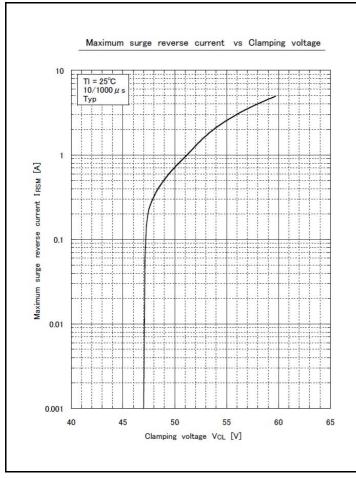
^{* :}See the original Specifications

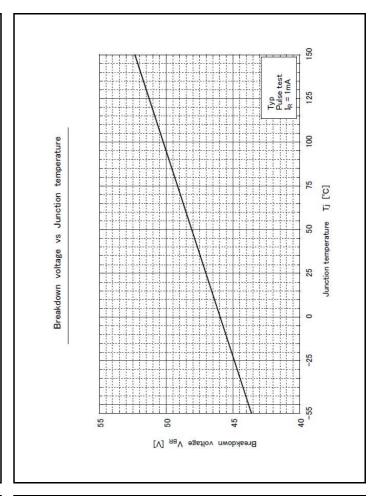
Electrical Characteristics (unless otherwise specified : TI=25°C)

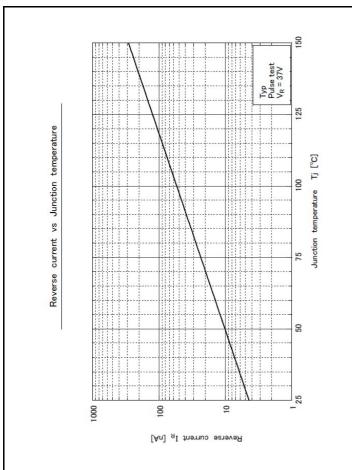
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	O.I.I.C
Breakdown voltage	V_{BR}	IR=1mA, Pulse measurement	42	47	52	V
Reverse current	I _R	VR=37V, Pulse measurement			5	μΑ
Electrostatic discharge capability	V _{ESD}	C=330pF, R=330Ω, Polarity±, Aerial discharge *		30		kV
Thermal resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate *			23	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			157	°C/W

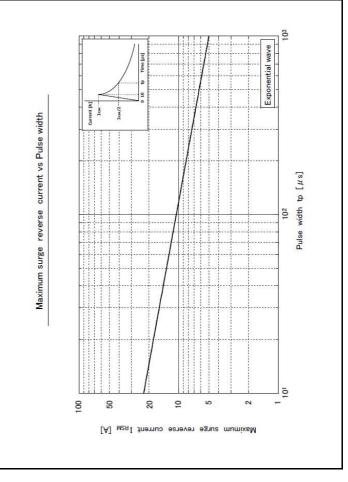
^{* :} See the original Specifications

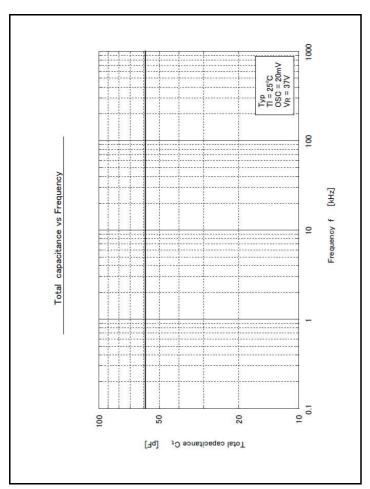
CHARACTERISTIC DIAGRAMS

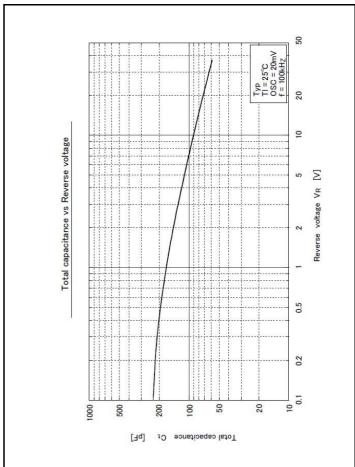


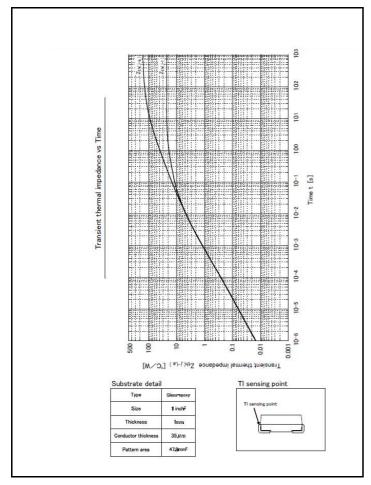








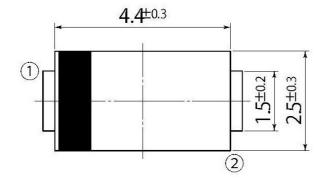


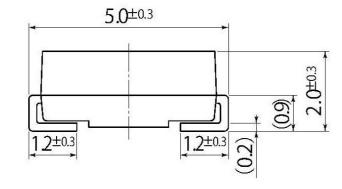


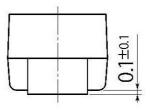
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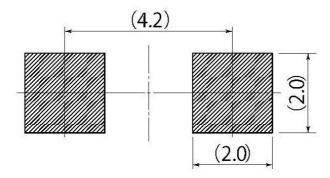
B3

JEDEC Code	DO-214AC		
JEITA Code	_		
House Name	1F		









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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