

ST04-24F1

TVS 12A, 400W

Feature

- Peak pulse power:400W
- · Small SMD
- · Based on AEC-Q101
- · Pb free terminal
- RoHS:Yes

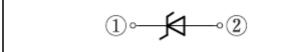
OUTLINE

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 175	°C
Maximum surge reverse current	I _{RSM}	10/1000μs, Non-repetitive *	12	Α
Maximum surge reverse power	P _{RSM}	10/1000μs, Non-repetitive *	400	W
Continuous (direct) reverse voltage	V _{R(DC)}		20	V

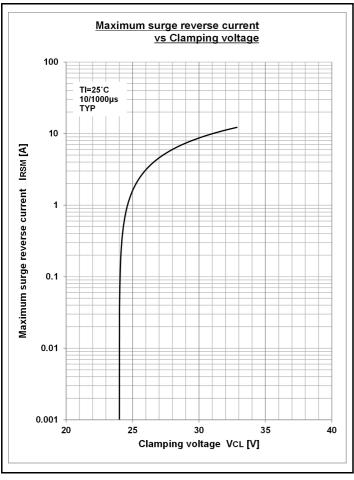
^{* :}See the original Specifications

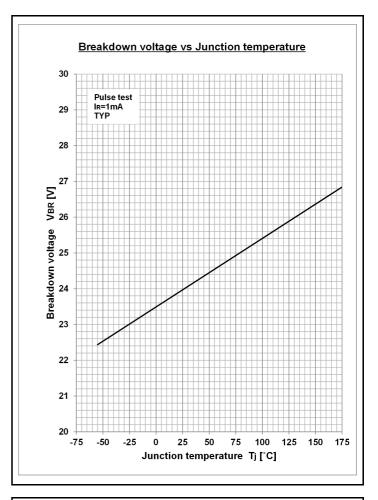
Electrical Characteristics (unless otherwise specified : TI=25°C)

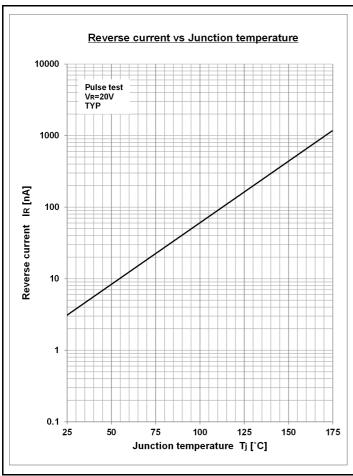
Item	Symbol	Conditions	Ratings			Unit
		Conditions		TYP	MAX	Ot
Breakdown voltage	V_{BR}	IR=1mA, Pulse measurement	22.8		25.6	V
Reverse current	I _R	VR=20V, Pulse measurement			5	μΑ
Electrostatic discharge capability	V _{ESD}	C=330pF, R=330Ω, Polarity±, Aerial discharge *		30		kV
Thermal resistance	Rth(j-l)	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

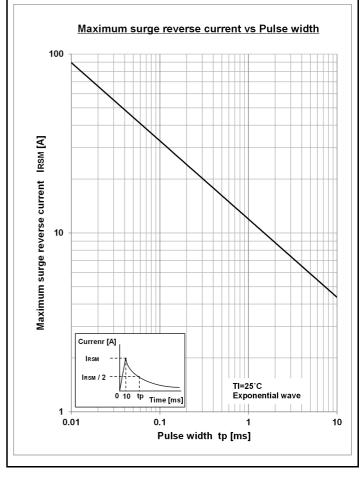
^{* :} See the original Specifications

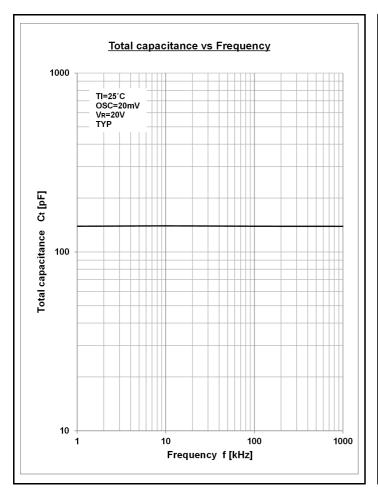
CHARACTERISTIC DIAGRAMS

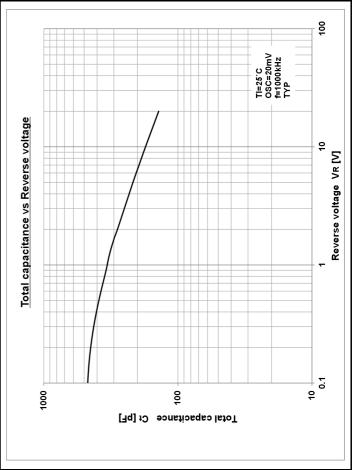


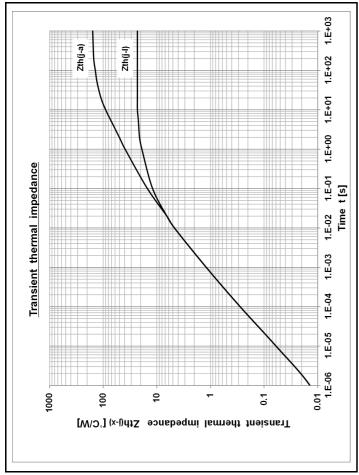








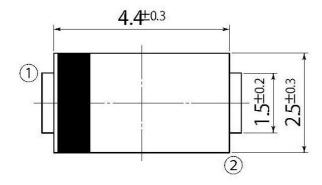


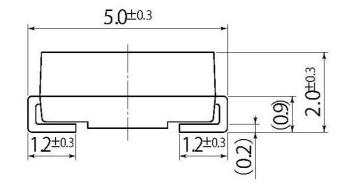


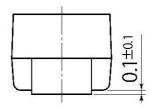
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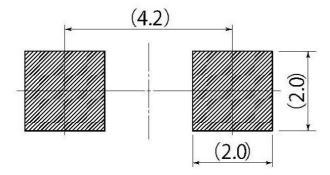
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JEDEC Code	DO-214AC
JEITA Code	-
House Name	1F









Referential Soldering Pad

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

Notes

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