

ST04-16F1

TVS 15A, 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 ※	15	А
Maximum surge reverse power	P _{RSM}	10/1000μs, Non-repetitive ※	400	W
Continuous (direct) reverse voltage	V _{R(DC)}		13.6	V

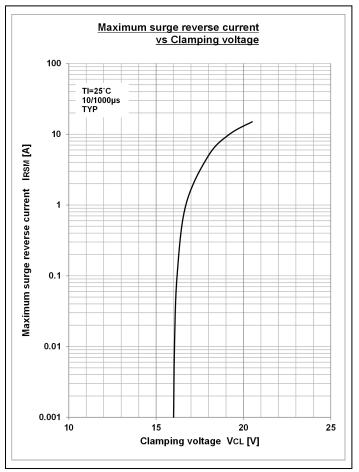
[※] ∶See the original Specifications

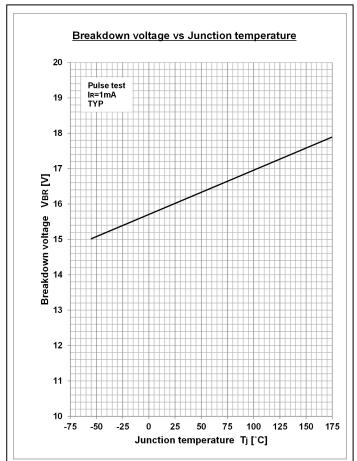
Electrical Characteristics (unless otherwise specified: Tl=25°C)

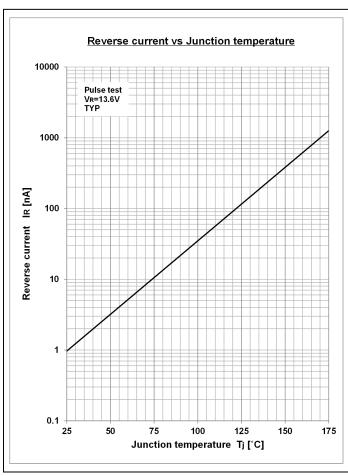
Item	Symbol	Conditions	Ratings			l lmia
			MIN	TYP	MAX	Unit
Breakdown voltage	V_{BR}	IR=1mA, Pulse measurement	14.4		17.6	٧
Reverse current	I _R	VR=13.6V, Pulse measurement			5	μΑ
Electrostatic discharge capability	V _{ESD}	C=330pF, R=330Ω, Polarity±, Aerial discharge ※		30		kV
Thermal resistance	Rth(j-l)	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

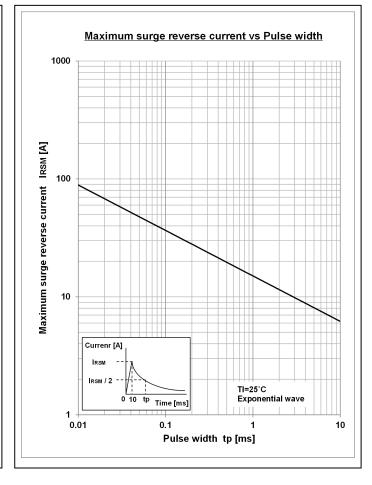
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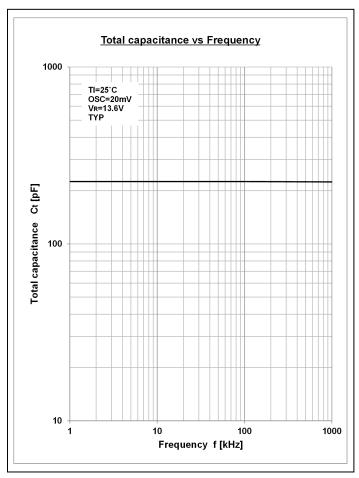
CHARACTERISTIC DIAGRAMS

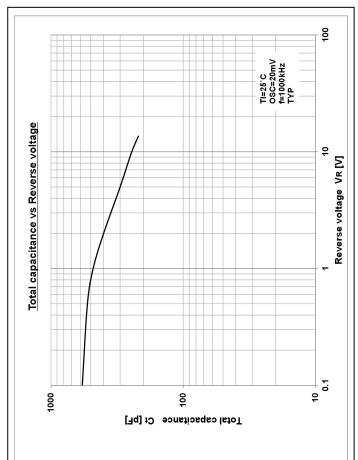


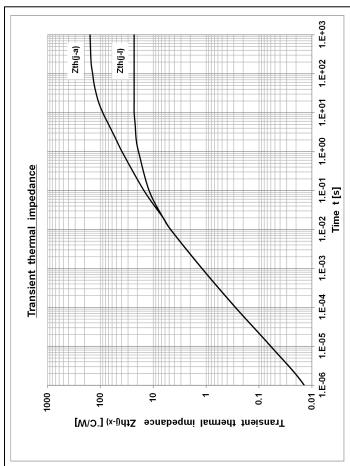










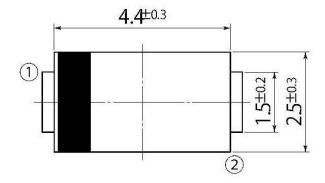


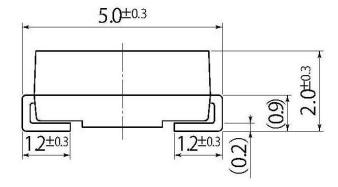
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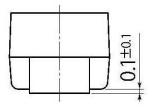
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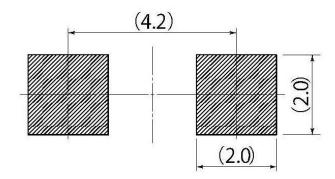
B3

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









Referential Soldering Pad

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

Notes

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[Specific applications]

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