

# ST04-36F1

TVS 7.5A, 400W

### **Feature**

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

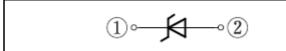
### **OUTLINE**

Package (House Name): 1F

Package (JEDEC Code): DO-214AC



# **Equivalent circuit**



# **Absolute Maximum Ratings** (unless otherwise specified : 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 <sub>RSM</sub>	10/1000μs, Non-repetitive *	7.5	Α
Maximum surge reverse power	P <sub>RSM</sub>	10/1000μs, Non-repetitive *	400	W
Continuous (direct) reverse voltage	V <sub>R(DC)</sub>		27	V

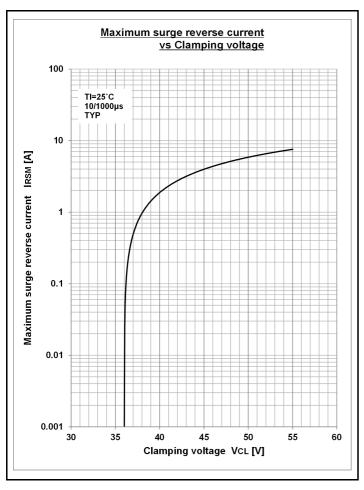
<sup>\* :</sup>See the original Specifications

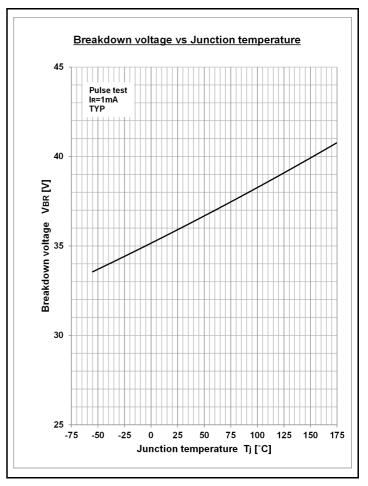
# **Electrical Characteristics** (unless otherwise specified : TI=25°C)

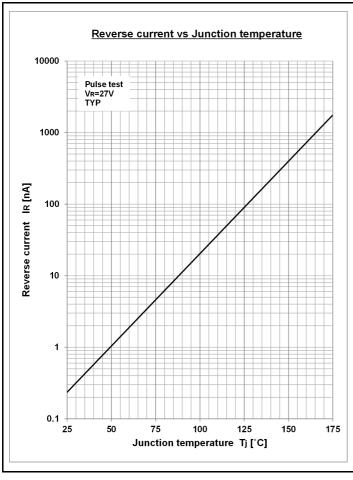
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Onne
Breakdown voltage	$V_{BR}$	IR=1mA, Pulse measurement	34		38	V
Reverse current	I <sub>R</sub>	VR=27V, Pulse measurement			5	μΑ
Electrostatic discharge capability	V <sub>ESD</sub>	C=330pF, R=330Ω, Polarity±, Aerial discharge *		30		kV
Thermal resistance	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

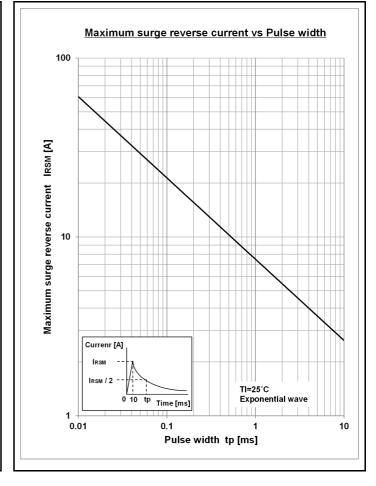
<sup>\* :</sup> See the original Specifications

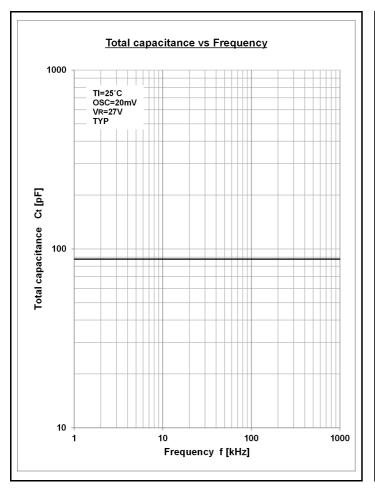
# **CHARACTERISTIC DIAGRAMS**

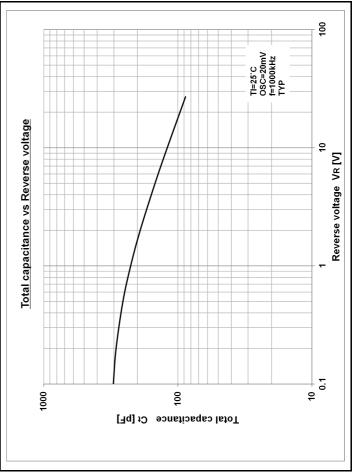


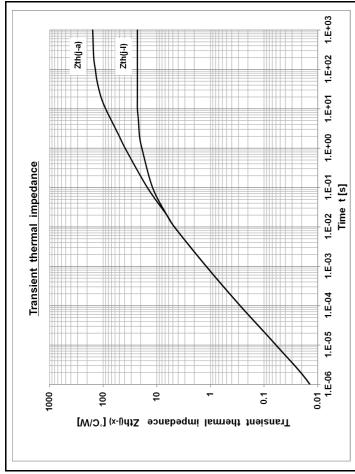








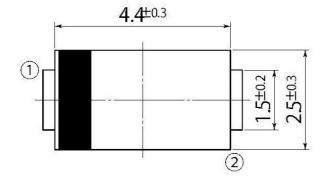


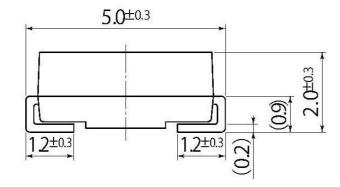


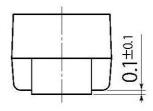
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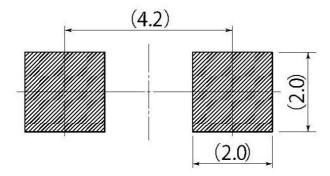
# **B3**

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









Referential Soldering Pad

<sup>•</sup> Optimize soldering pad to the board design and soldering condition.

### **Notes**

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