ST80-14MF

TVS 400A, 8000W

Feature

- Peak pulse power:8000W
- SMD
- Available for automotive use
- Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : TI=25°C)

Item	Symbol	Conditions	Ratings	Unit	
Storage temperature	Tstg		-40 to 150	°C	
Operating junction temperature	Tj		-40 to 150	°C	
Maximum surge reverse current	I _{RSM}	10/1000µs, Non-repetitive ※	400	А	
Maximum surge reverse current	I _{RSM}	10/10000µs, Non-repetitive *	200	А	
Maximum surge reverse power	P _{RSM}	10/1000µs, Non-repetitive ※	8000	W	
Maximum surge reverse power	P _{RSM}	10/10000µs, Non-repetitive *	4000	W	
Continuous (direct) reverse voltage	V _{R(DC)}		12	V	
Power dissipation	Р		5	W	

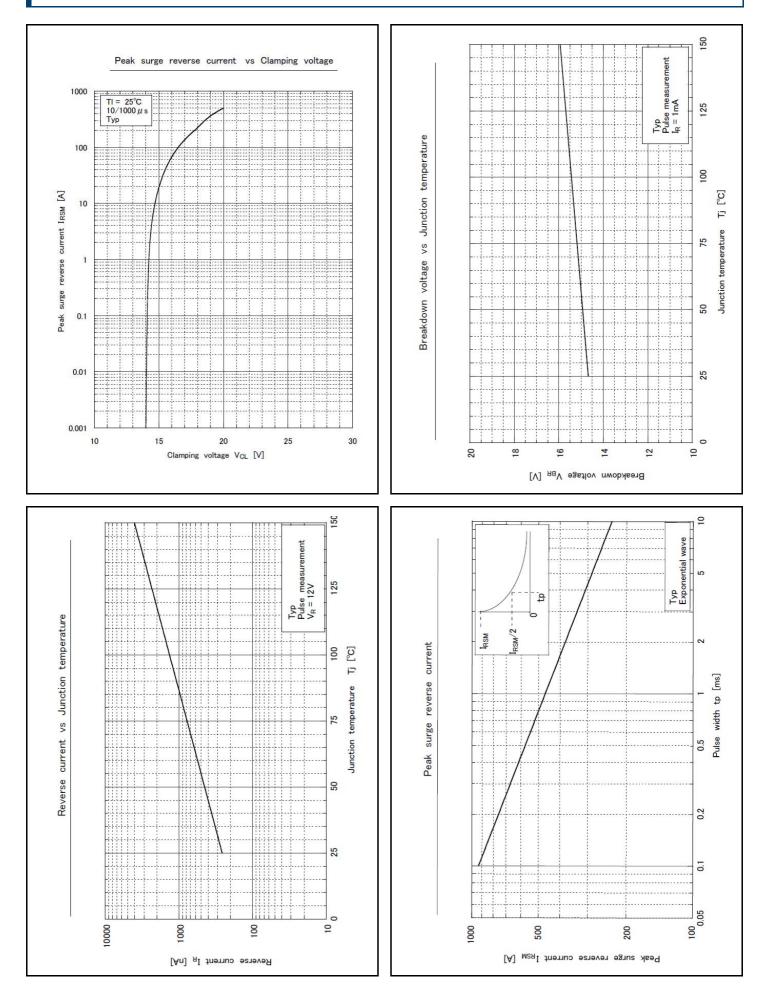
* : See the original Specifications

Electrical Characteristics	(unless otherwise specified : TI=25°C)
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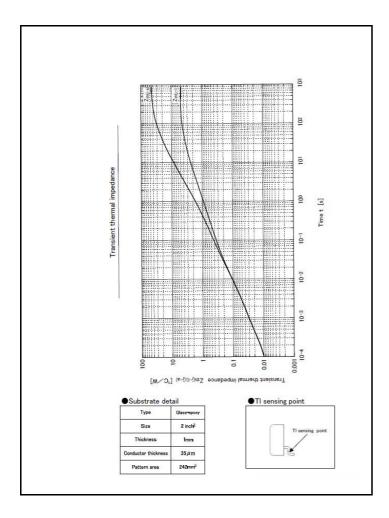
Item	Symbol	Conditions	Ratings			Unit
			MIN	ТҮР	MAX	Onit
Breakdown voltage	V _{BR}	IR=1mA, Pulse measurement	13		15	V
Reverse current	I _R	VR=12V, Pulse measurement			10	μA
Thermal resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate *			5	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			45	°C/W
Forward voltage	V _F	IF=30A, Pulse Measurement			1.3	V
Temperature coefficient	rz				0.08	%/°C

* : See the original Specifications

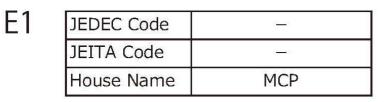
CHARACTERISTIC DIAGRAMS

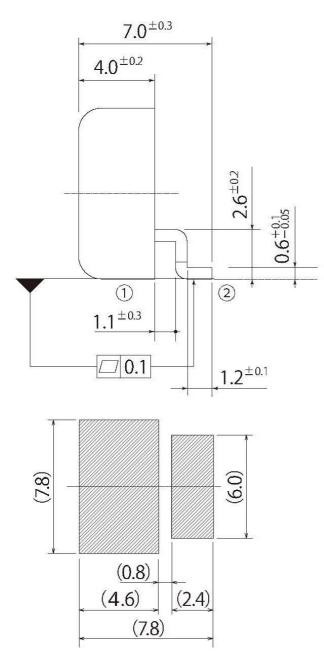


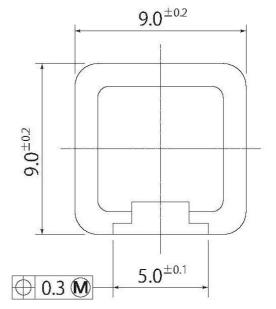
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unit:mm







Referential Soldering Pad

Optimize soldering pad to the board design and soldering condition.

Notes

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[Specific applications]

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