

# **ST60-40MF**

# TVS 100A, 6000W

### **Feature**

- Peak pulse power:6000W
- 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 <sub>RSM</sub>	10/1000μs, Non-repetitive *	100	Α
Maximum surge reverse current	I <sub>RSM</sub>	10/10000μs, Non-repetitive *	55	Α
Maximum surge reverse power	P <sub>RSM</sub>	10/1000μs, Non-repetitive *	6000	W
Maximum surge reverse power	P <sub>RSM</sub>	10/10000μs, Non-repetitive *	3000	W
Continuous (direct) reverse voltage	V <sub>R(DC)</sub>		32	V
Power dissipation	Р		5	W

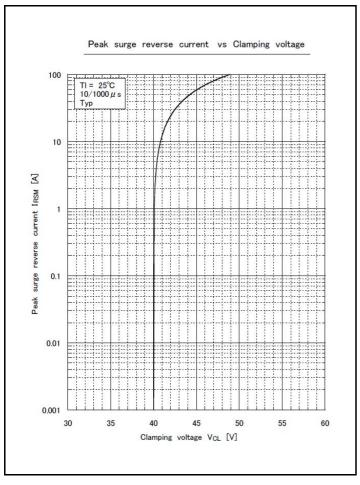
<sup>\* :</sup>See the original Specifications

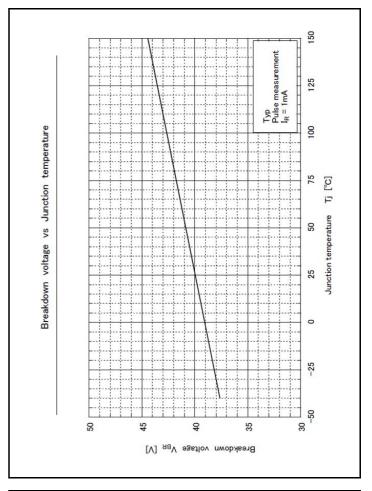
# **Electrical Characteristics** (unless otherwise specified : TI=25°C)

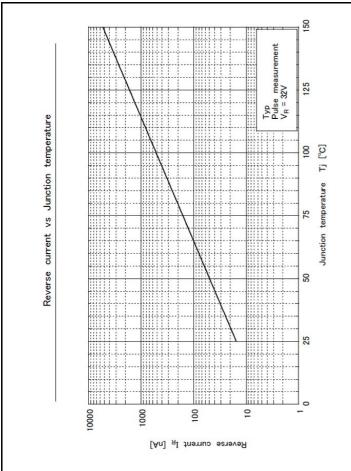
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	- Omit
Breakdown voltage	$V_{BR}$	IR=1mA, Pulse measurement	36.5		44	V
Reverse current	I <sub>R</sub>	VR=32V, Pulse measurement			5	μΑ
Thermal resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate *			5	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			45	°C/W
Forward voltage	V <sub>F</sub>	IF=30A, Pulse Measurement			1.3	V
Temperature coefficient	rz				0.12	%/°C

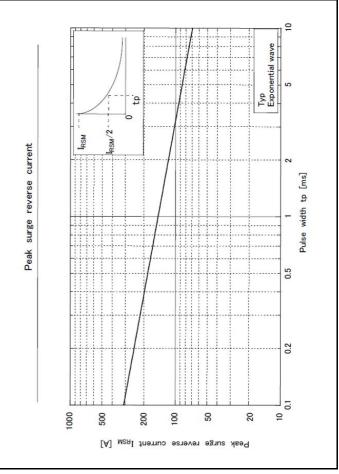
<sup>\*</sup> :See the original Specifications

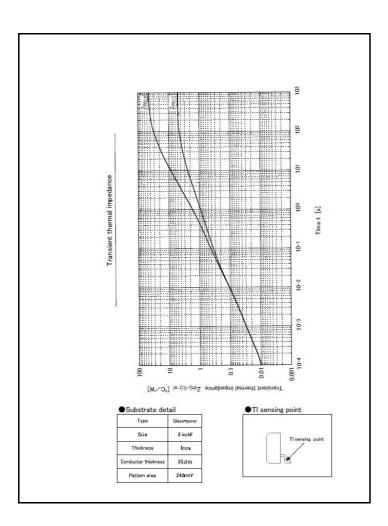
### **CHARACTERISTIC DIAGRAMS**





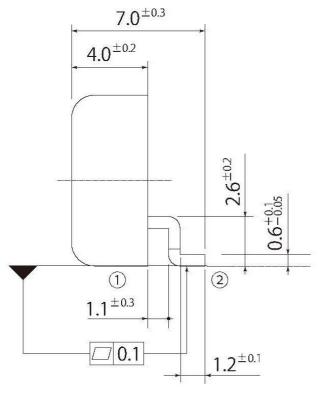


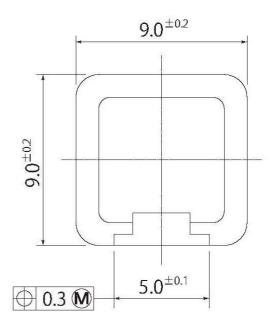


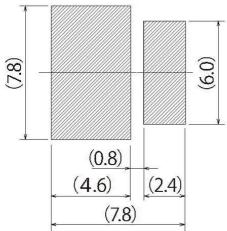


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JEDEC Code	_
JEITA Code	
House Name	MCP







Referential Soldering Pad

 $\bullet$  Optimize soldering pad to the board design and soldering condition.

### **Notes**

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