

ST60-48MF

TVS

100A, 6000W

Feature

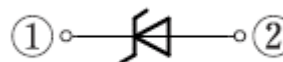
- Peak pulse power:6000W
- SMD
- Available for automotive use
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): MCP



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T _{stg}		-40 to 150	°C
Operating junction temperature	T _j		150	°C
Maximum surge reverse current	I _{RSM}	10/1000μs, Non-repetitive *	100	A
Maximum surge reverse current	I _{RSM}	10/10000μs, Non-repetitive	55	A
Maximum surge reverse power	P _{RSM}	10/1000μs, Non-repetitive	6000	W
Maximum surge reverse power	P _{RSM}	10/10000μs, Non-repetitive	3000	W
Continuous (direct) reverse voltage	V _{R(DC)}		40	V
Power dissipation	P		5	W

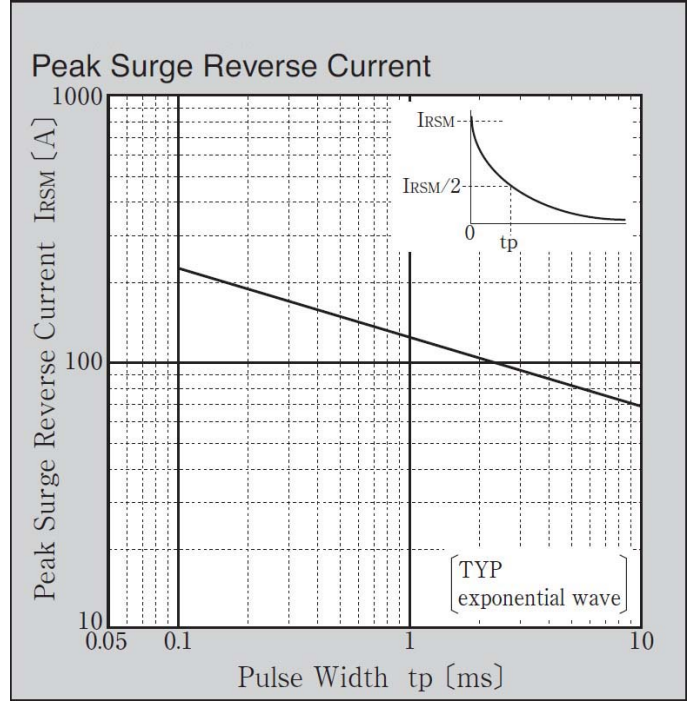
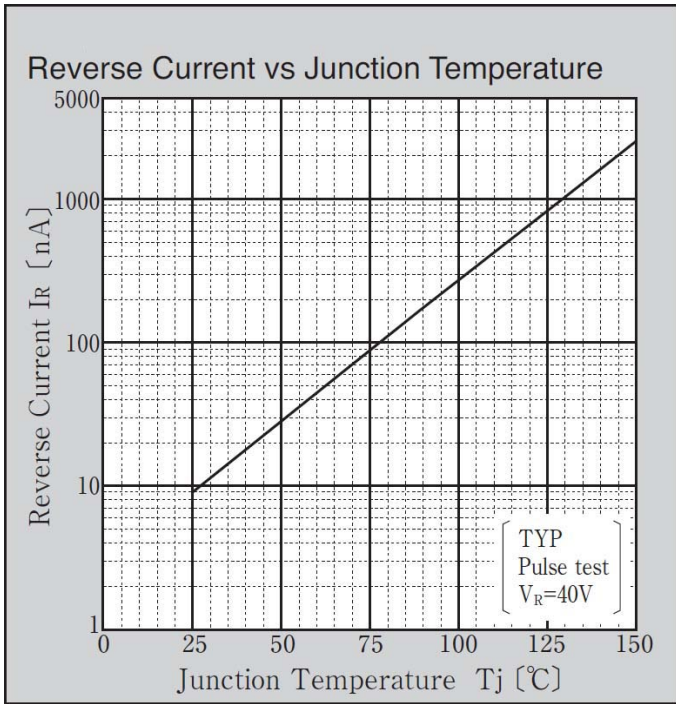
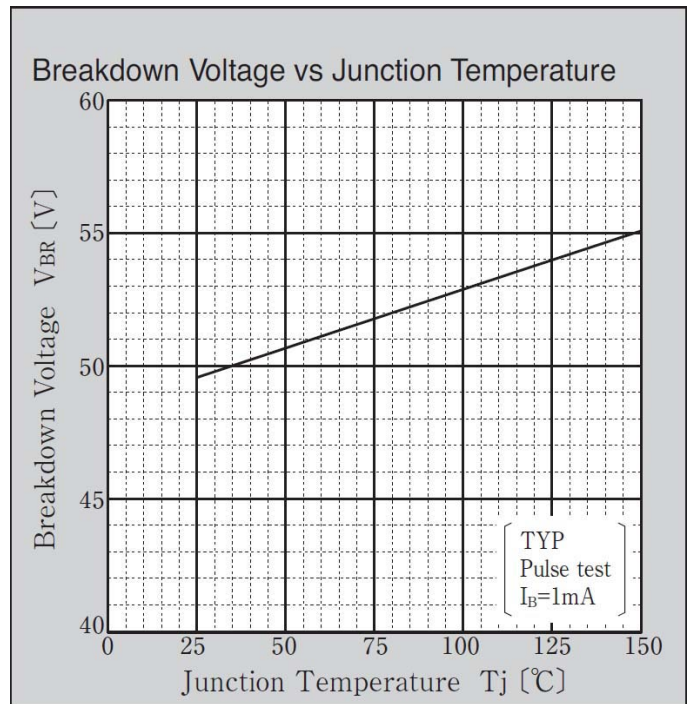
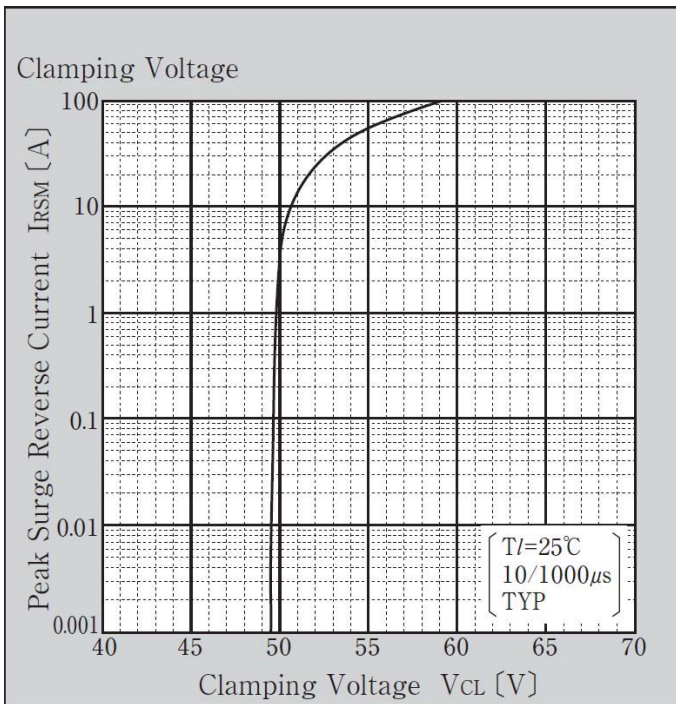
* :See the original Specifications

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

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Breakdown voltage	V_{BR}	$I_R=1mA$	43.2		54	V
Reverse current	I_R	$V_R=40V$, Pulse measurement			5	μA
Thermal resistance	$R_{th(j-l)}$	Junction to lead, On glass-epoxy substrate			5	$^{\circ}C/W$
Thermal resistance	$R_{th(j-a)}$	Junction to ambient, On glass-epoxy substrate			45	$^{\circ}C/W$
Forward voltage	V_F	$I_F=30A$, Pulse Measurement			1.3	V
Temperature coefficient	r_z				0.15	$\%/^{\circ}C$

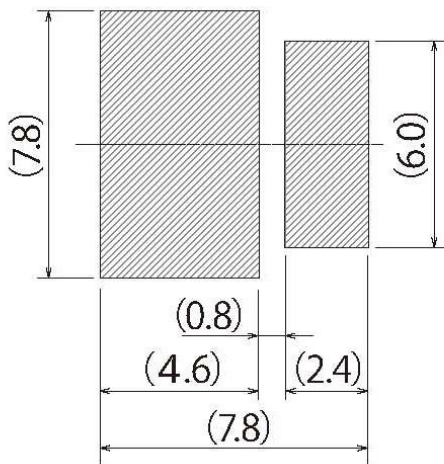
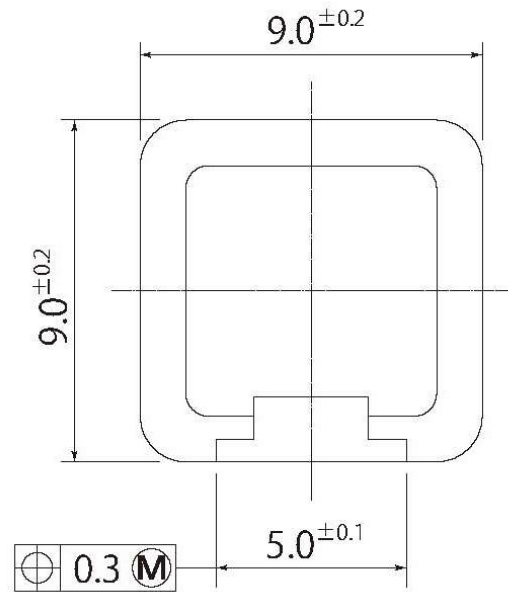
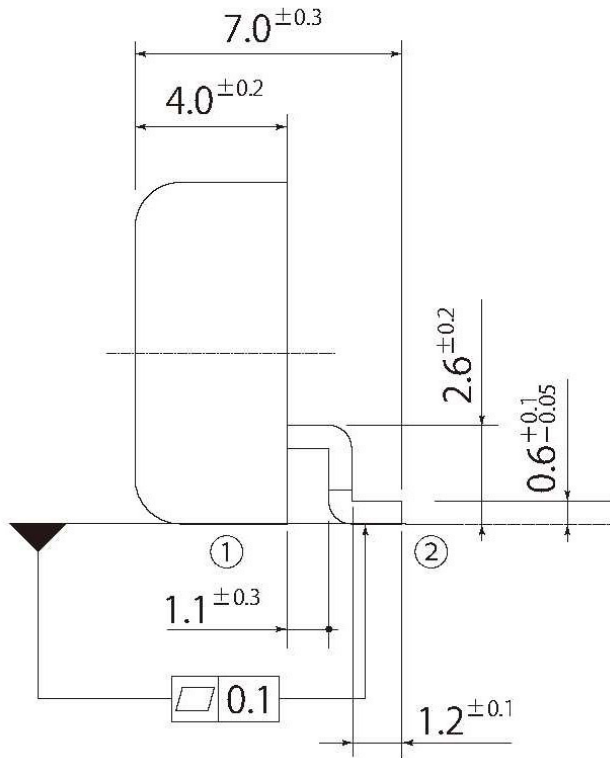
* :See the original Specifications

CHARACTERISTIC DIAGRAMS



E1

JEDEC Code	—
JEITA Code	—
House Name	MCP



Referential Soldering Pad

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

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