

ST70-27MF

TVS 180A, 7000W

Feature

- Peak pulse power:7000W
- SMD
- Available for automotive use
- Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit



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

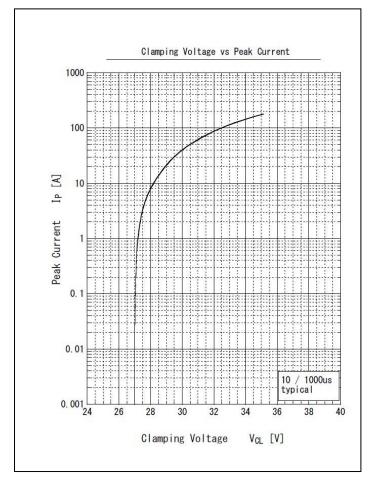
Item	Symbol	Conditions	Ratings	Unit
Storage temperature	Tstg		-40 to 150	°C
Operating junction temperature	Tj		150	°C
Maximum surge reverse current	I _{RSM}	10/1000μs, Non-repetitive ※	180	Α
Maximum surge reverse current	I _{RSM}	10/10000μs, Non-repetitive	100	Α
Maximum surge reverse power	P _{RSM}	10/1000μs, Non-repetitive	7000	W
Maximum surge reverse power	P _{RSM}	10/10000μs, Non-repetitive	3500	W
Continuous (direct) reverse voltage	V _{R(DC)}		23	V
Power dissipation	Р		5	W

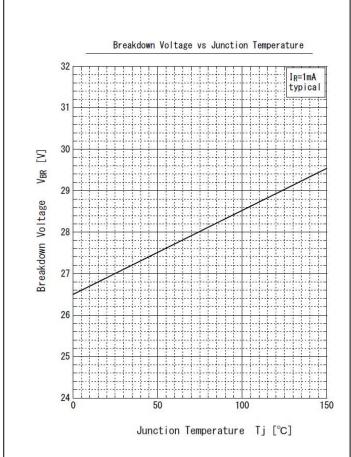
[※] ∶See the original Specifications

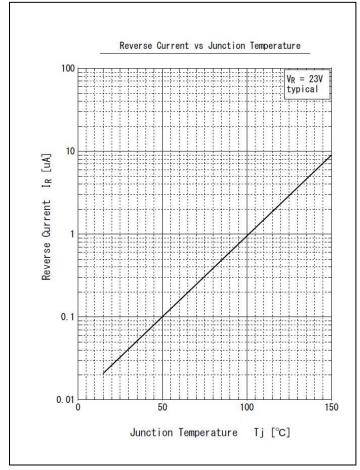
Electrical Characteristics (unless otherwise specified: Tl=25°C)

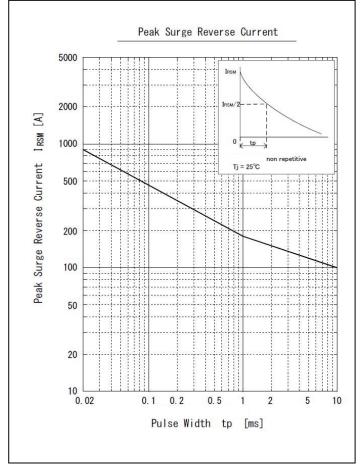
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Unit
Breakdown voltage	V_{BR}	IR=1mA	24.3		29.7	٧
Reverse current	I _R	VR=23V, Pulse measurement			5	μΑ
Thermal resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate			5	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate			45	°C/W
Forward voltage	V _F	IF=30A, Pulse Measurement			1.3	V
Temperature coefficient	rz				0.09	%/°C

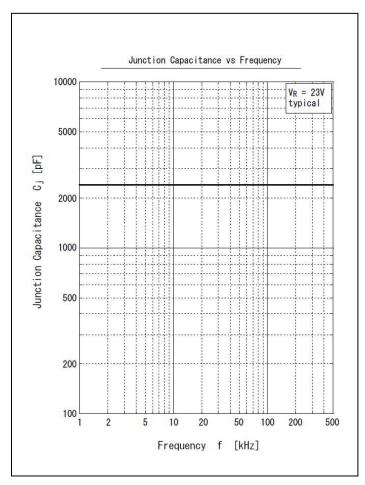
CHARACTERISTIC DIAGRAMS

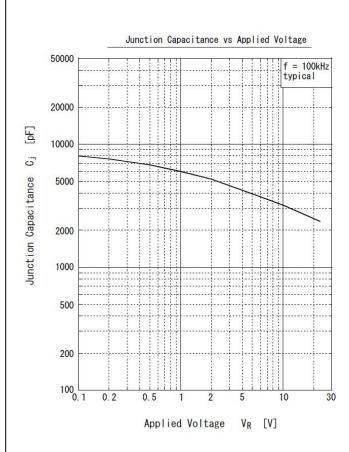


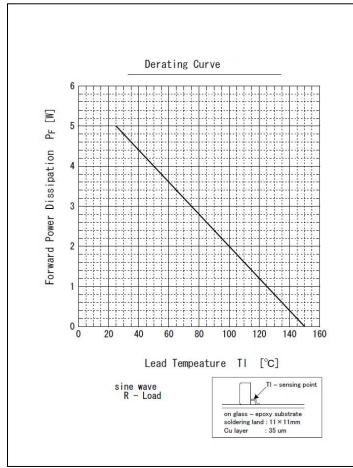


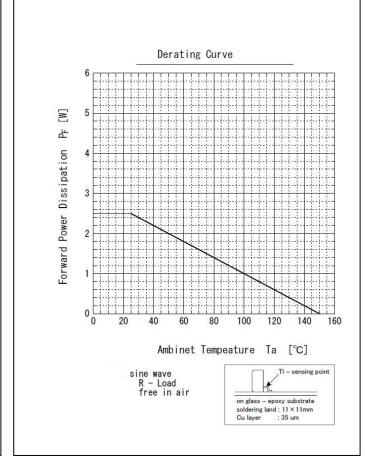


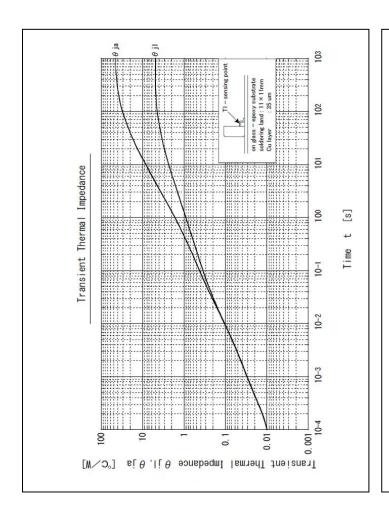


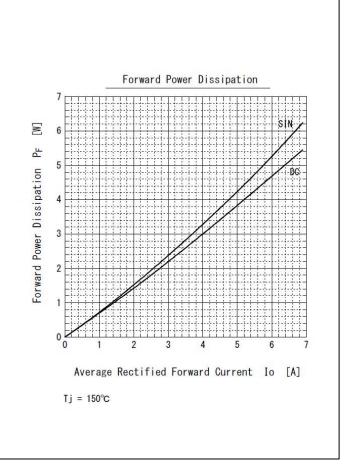






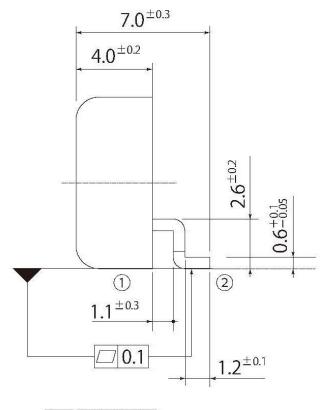


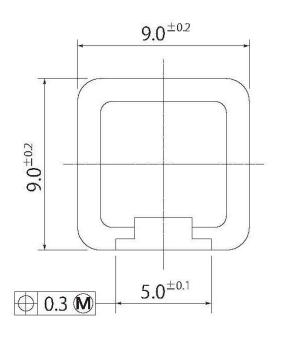


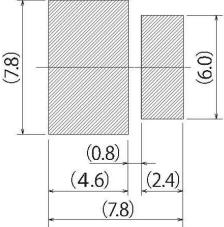


E1

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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[Specific applications]

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