

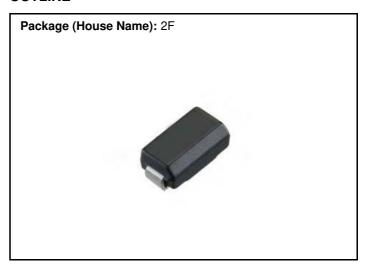
ST20-33F2

TVS 45A, 2000W

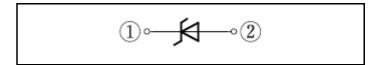
Feature

- Peak pulse power:2000W
- SMD
- · Based on AEC-Q101
- · 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		-55 to 175	°C
Operating junction temperature	Tj		-55 to 175	°C
Maximum surge reverse current	I _{RSM}	10/1000μs, Non-repetitive *	45	Α
Maximum surge reverse power	P _{RSM}	10/1000μs, Non-repetitive *	2000	W
Continuous (direct) reverse voltage	V _{R(DC)}		25	V

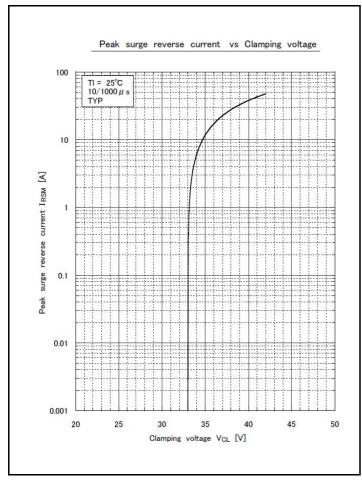
^{* :} See the original Specifications

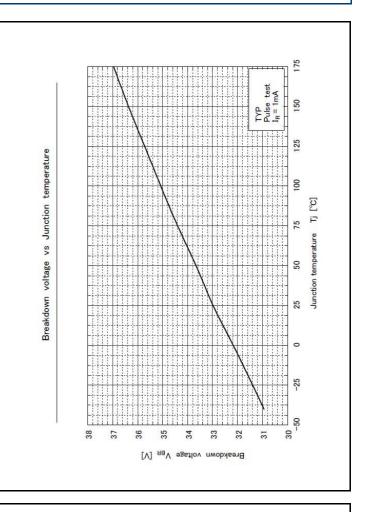
Electrical Characteristics (unless otherwise specified : TI=25°C)

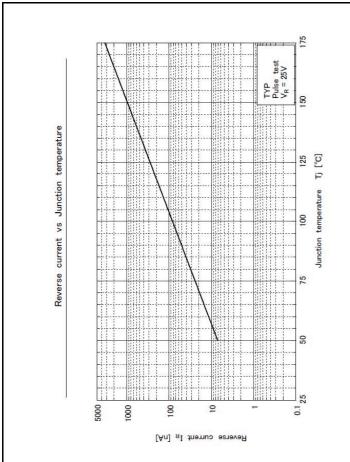
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Oilit
Breakdown voltage	V_{BR}	IR=1mA, Pulse measurement	31	33	35	V
Reverse current	I _R	VR=25V, Pulse measurement			5	μΑ
Thermal resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate *			23	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			115	°C/W
Restriction voltage	V _{CL}	10/1000μs, IRSM=45A *			45	V
Temperature coefficient	rz				0.12	%/°C

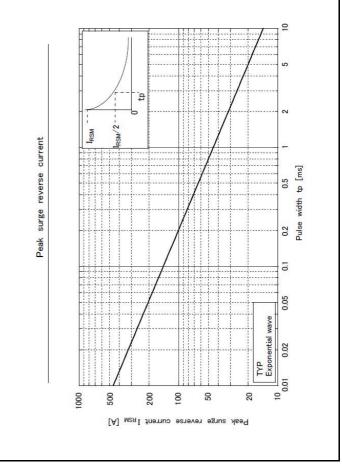
^{* :} See the original Specifications

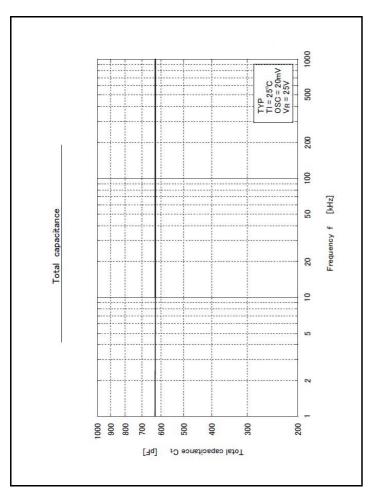
CHARACTERISTIC DIAGRAMS

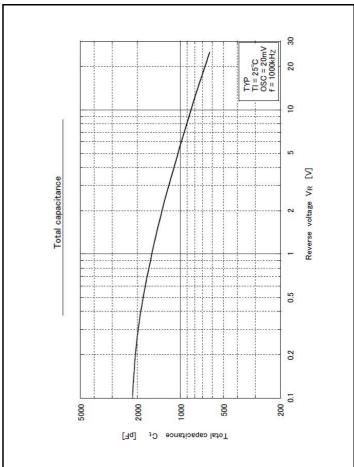


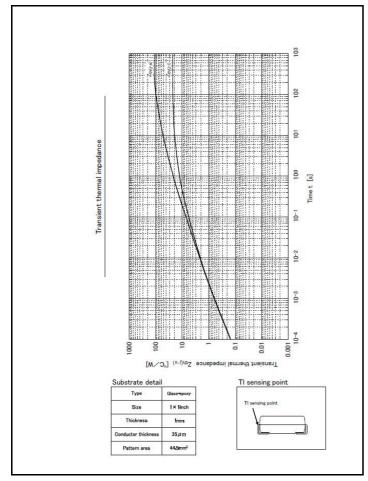








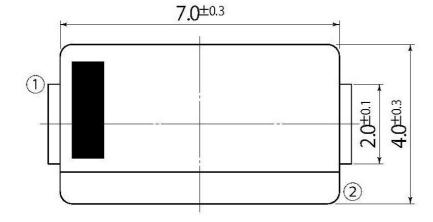


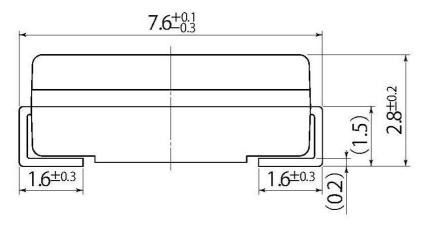


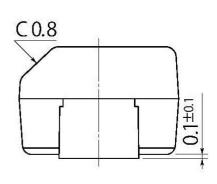
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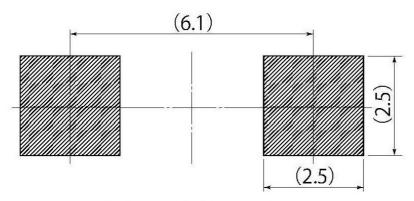


JEDEC Code	T
JEITA Code	
House Name	2F









Referential Soldering Pad

 $[\]boldsymbol{\cdot}$ Optimize soldering pad to the board design and soldering condition.

Notes

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