

ST70-27FZ

TVS
180A, 7000W

Feature

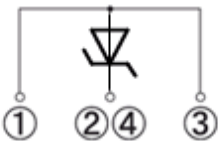
- Peak pulse power:7000W
- SMD
- Based on AEC-Q101
- Halogen free
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): FZ
Package (JEDEC Code): TO-263AB



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : Tc=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 ※	180	A
Maximum surge reverse power	P _{RSM}	10/1000μs, Non-repetitive ※	7000	W
Continuous (direct) reverse voltage	V _{R(DC)}		23	V

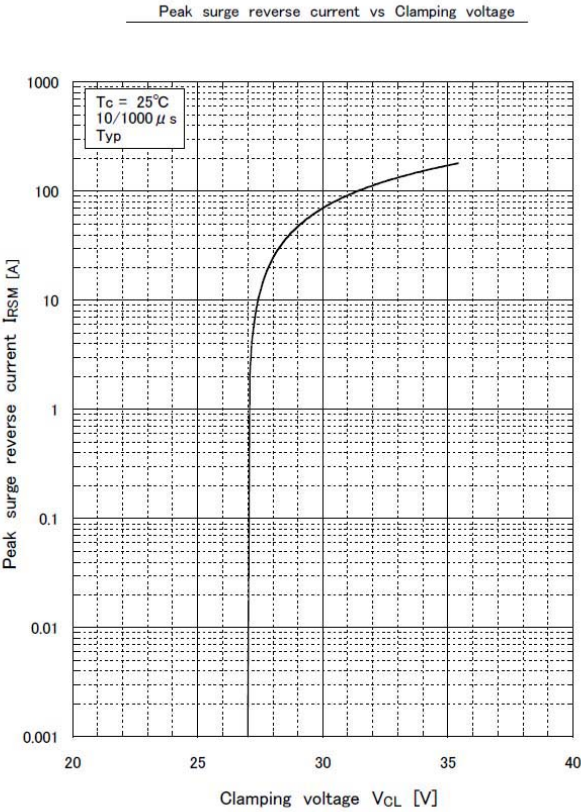
※ : See the original Specifications

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

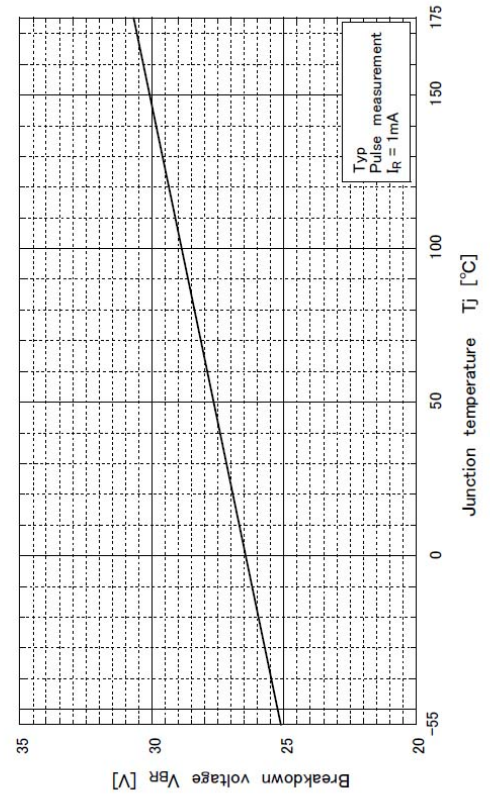
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Breakdown voltage	V _{BR}	IR=1mA, Pulse measurement	25		29	V
Reverse current	I _R	VR=23V, Pulse measurement			5	μA
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			0.6	°C/W

※ : See the original Specifications

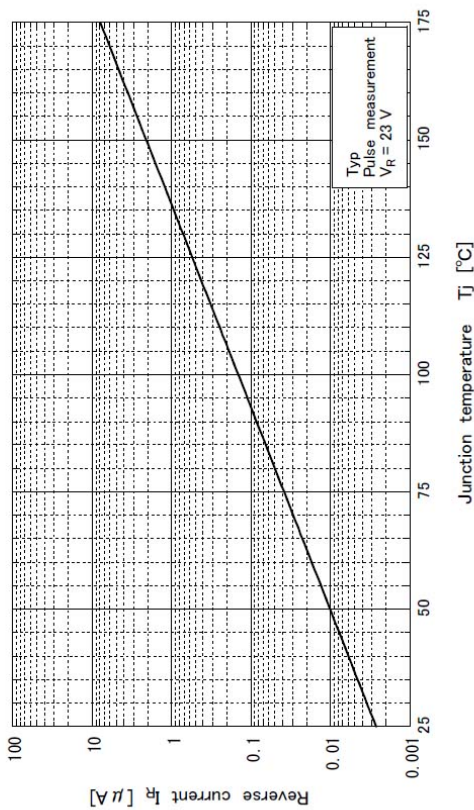
CHARACTERISTIC DIAGRAMS



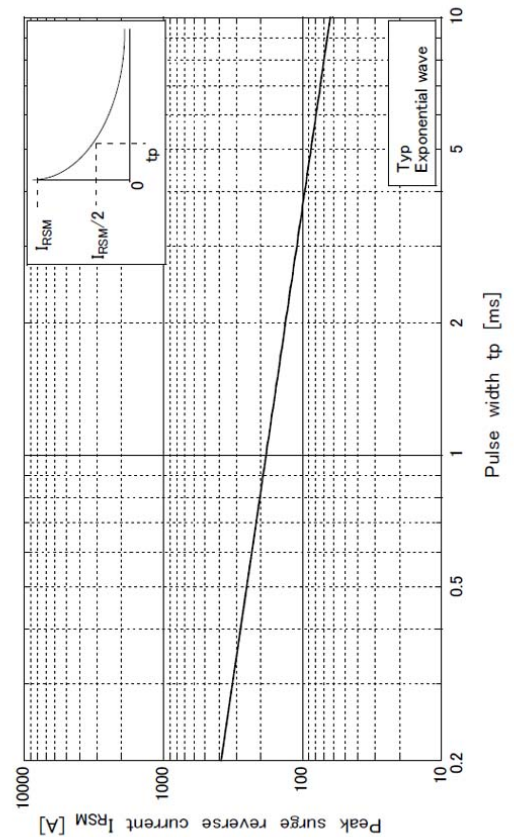
Breakdown voltage vs Junction temperature

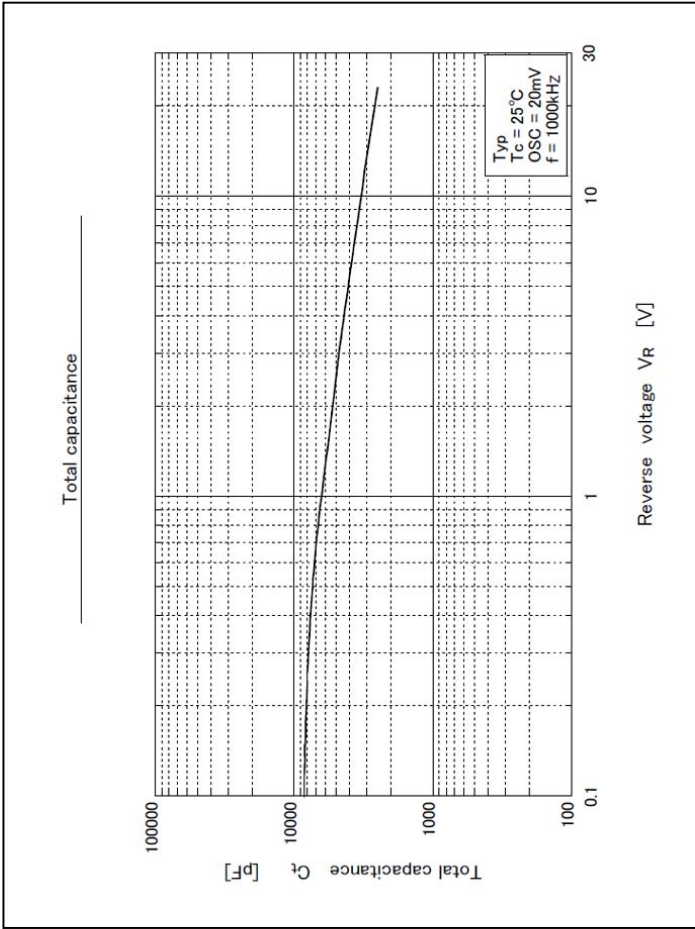
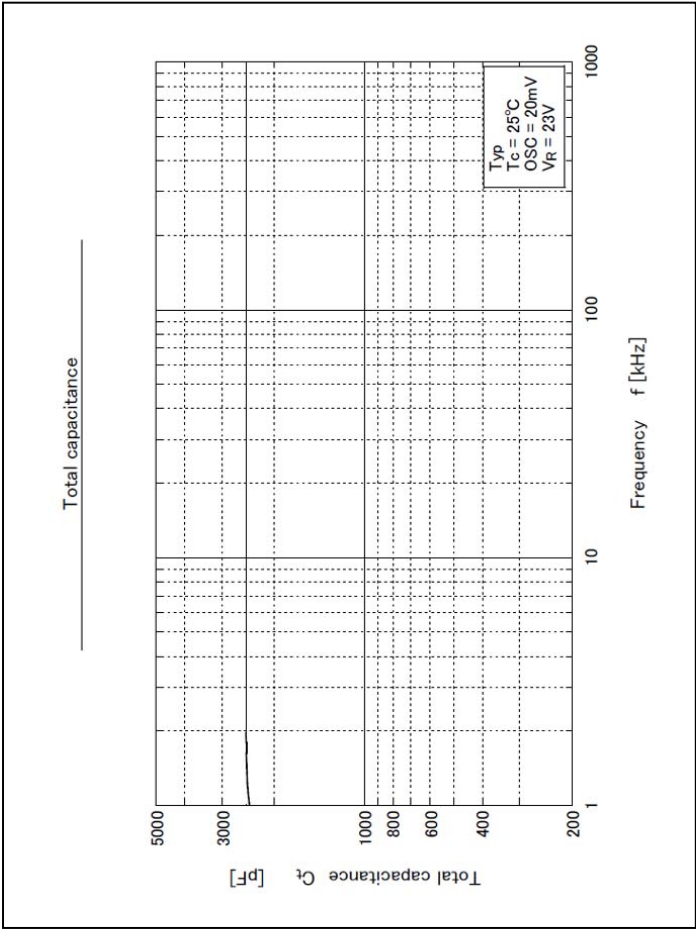
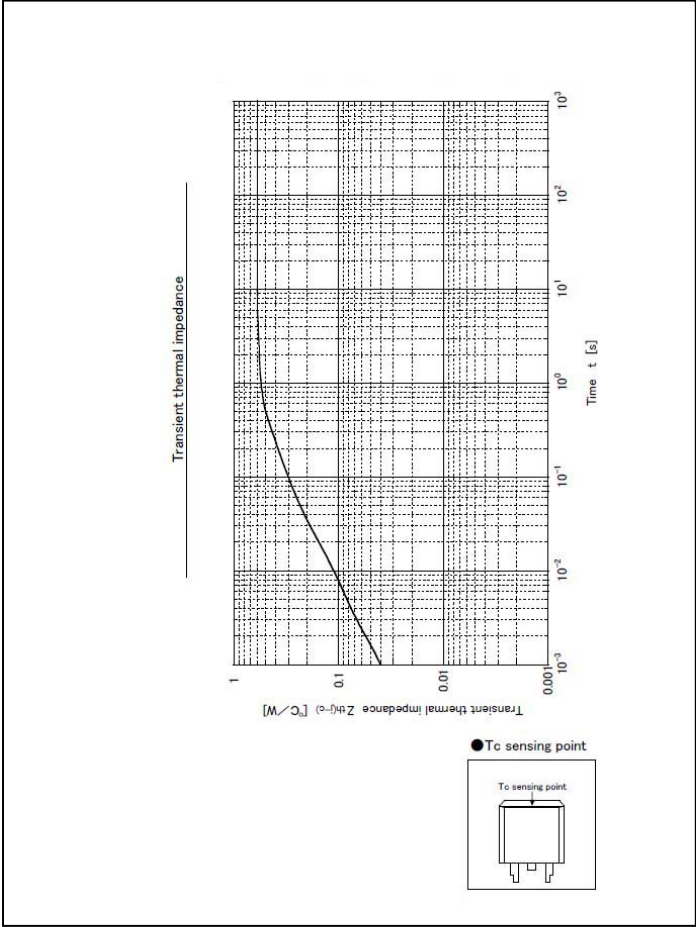


Reverse current vs Junction temperature



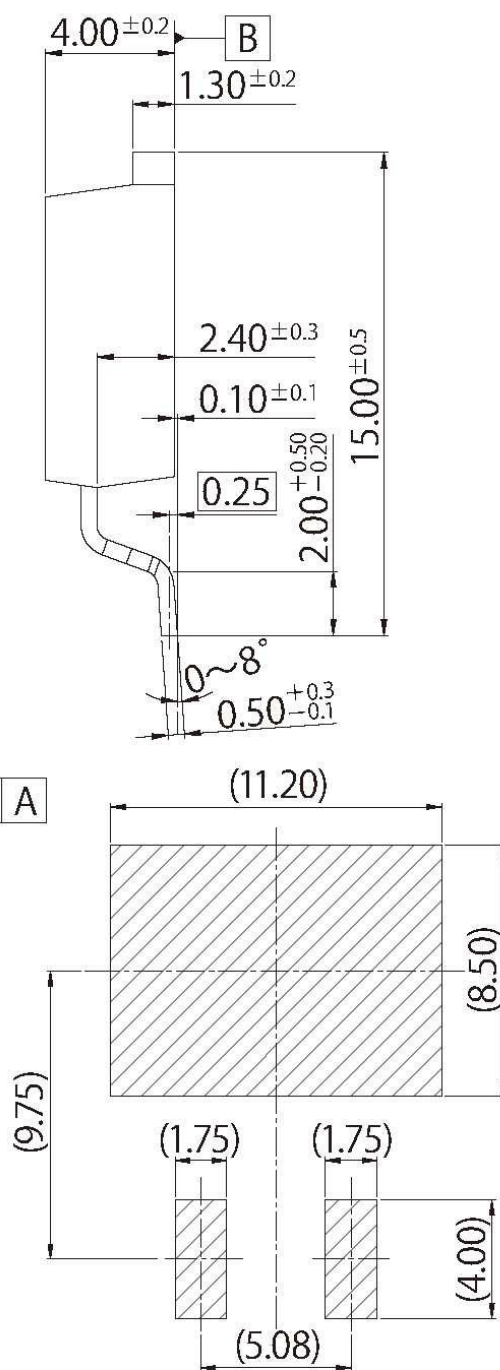
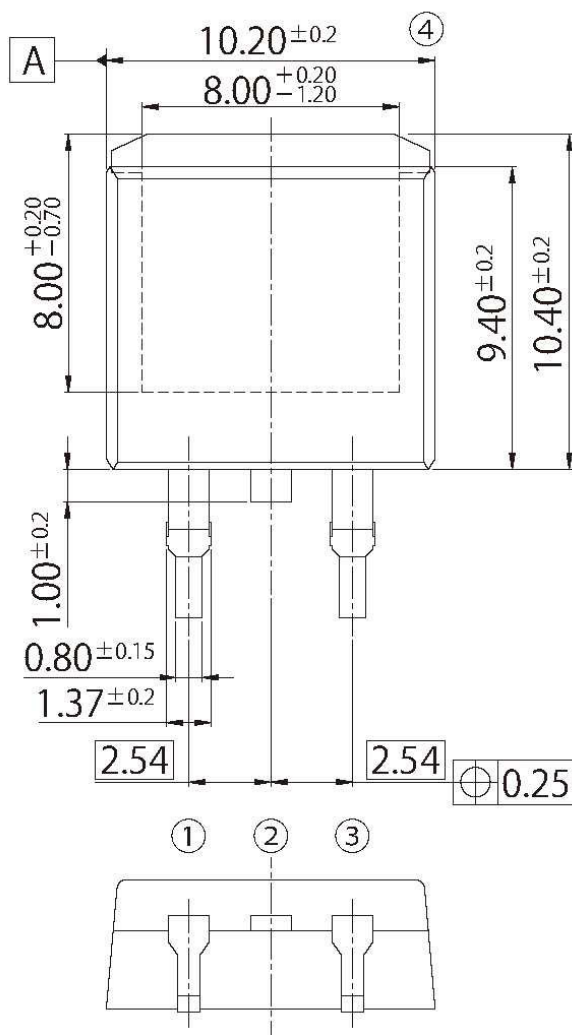
Peak surge reverse current





H6

JEDEC Code	TO-263AB
JEITA Code	—
House Name	FZ



Referential Soldering Pad

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

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