

# ST70-27FZ

TVS  
180A, 7000W

### Feature

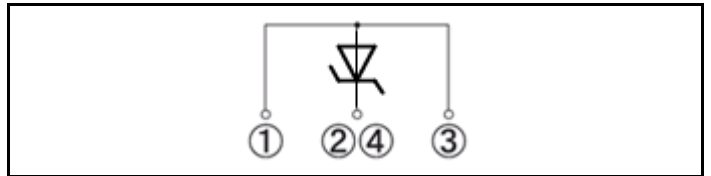
- Peak pulse power:7000W
- SMD
- Based on AEC-Q101
- Halogen free
- Pb free terminal
- RoHS:Yes

### 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	T <sub>stg</sub>		-55 to 175	°C
Operating junction temperature	T <sub>j</sub>		-55 to 175	°C
Maximum surge reverse current	I <sub>RSM</sub>	10/1000μs, Non-repetitive *	180	A
Maximum surge reverse power	P <sub>RSM</sub>	10/1000μs, Non-repetitive *	7000	W
Continuous (direct) reverse voltage	V <sub>R(DC)</sub>		23	V

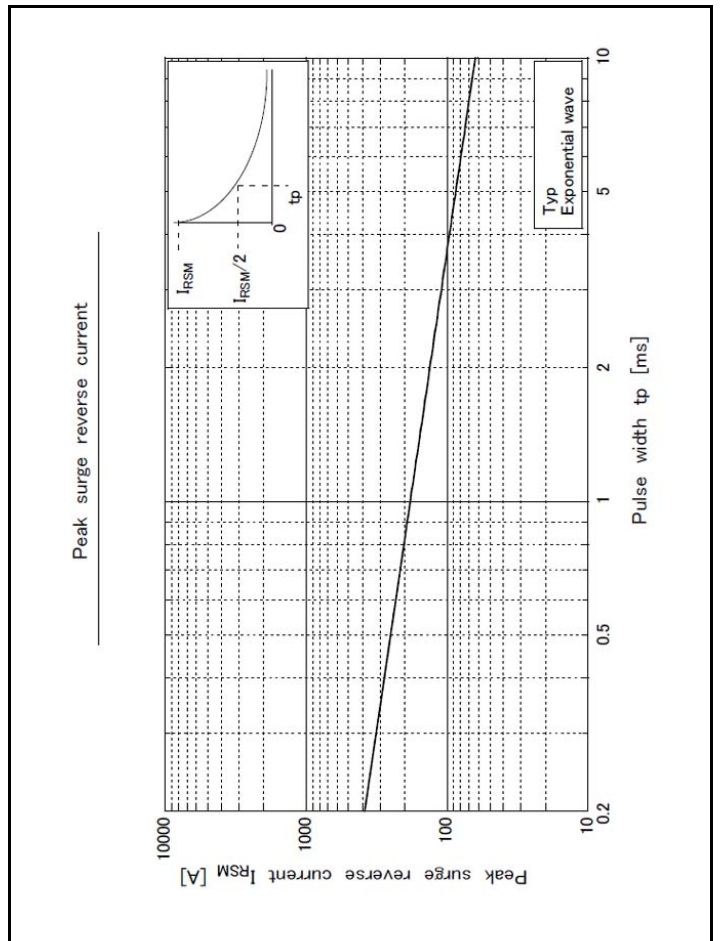
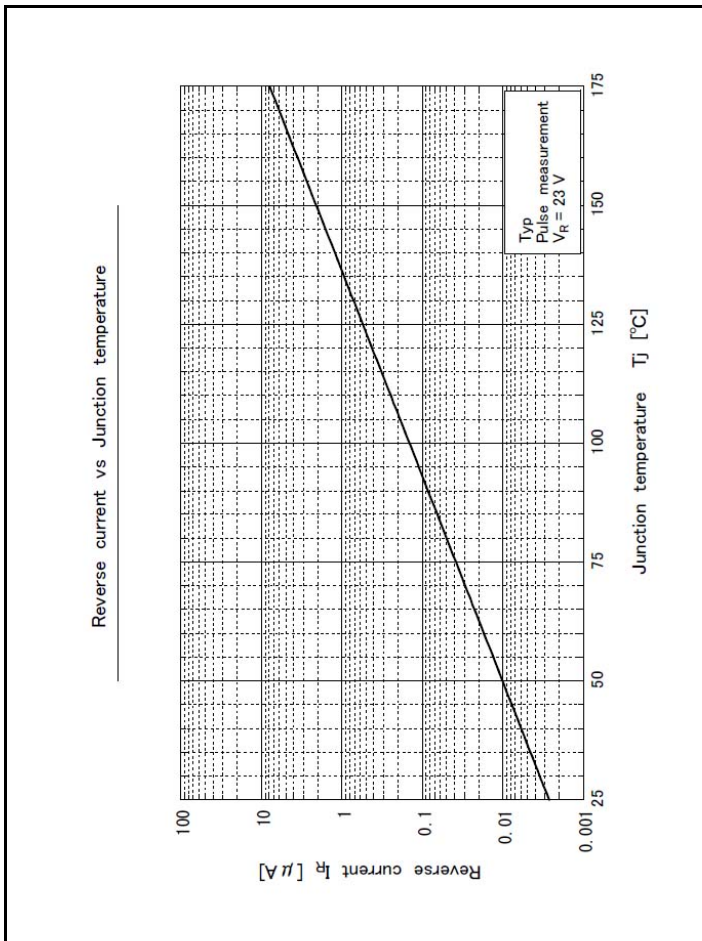
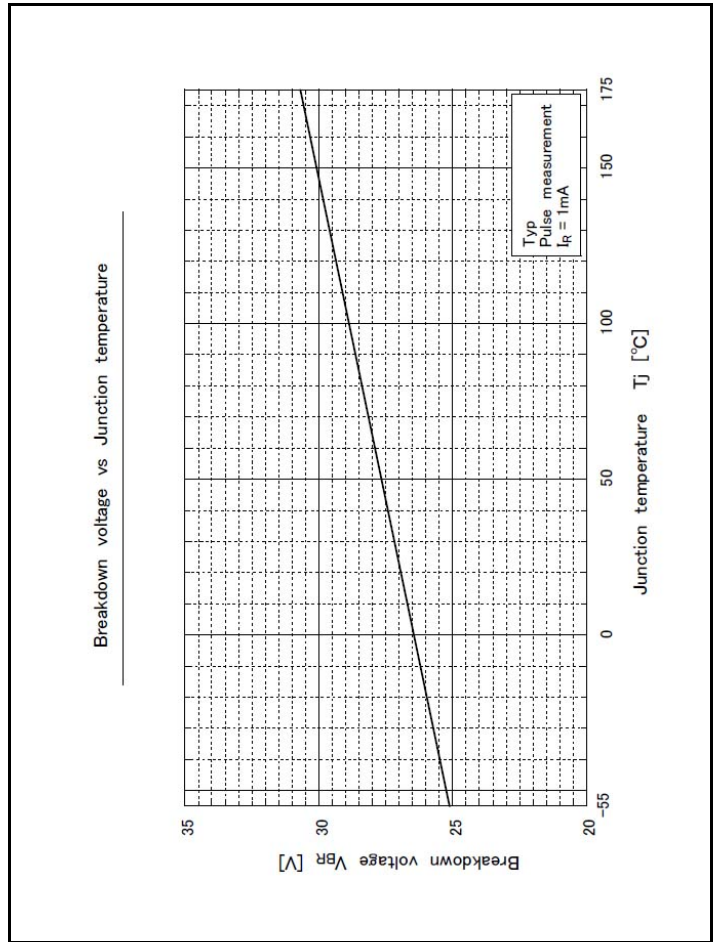
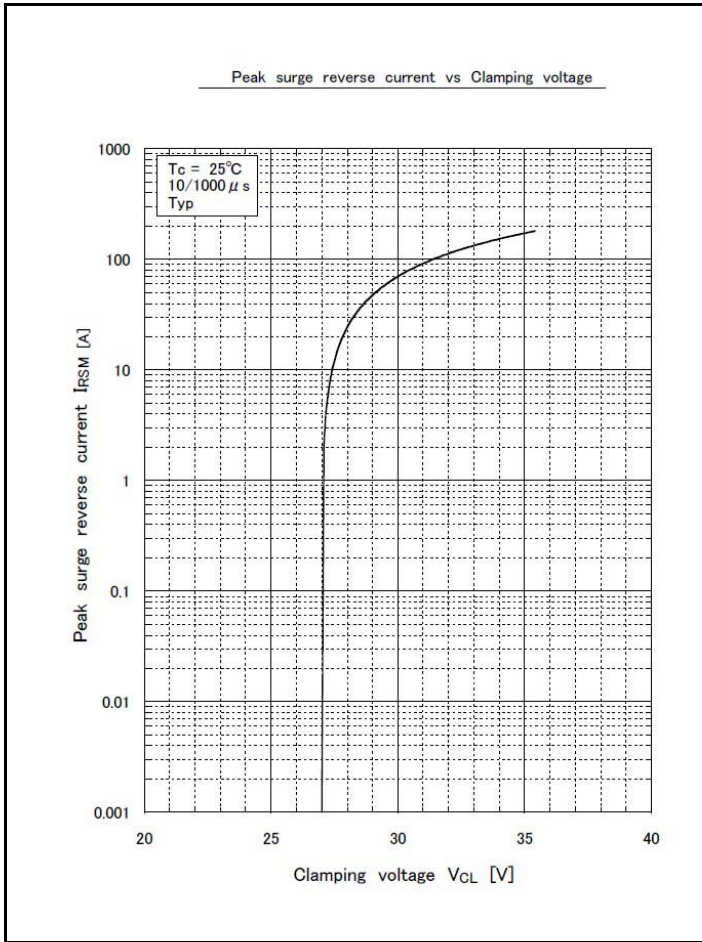
\* :See the original Specifications

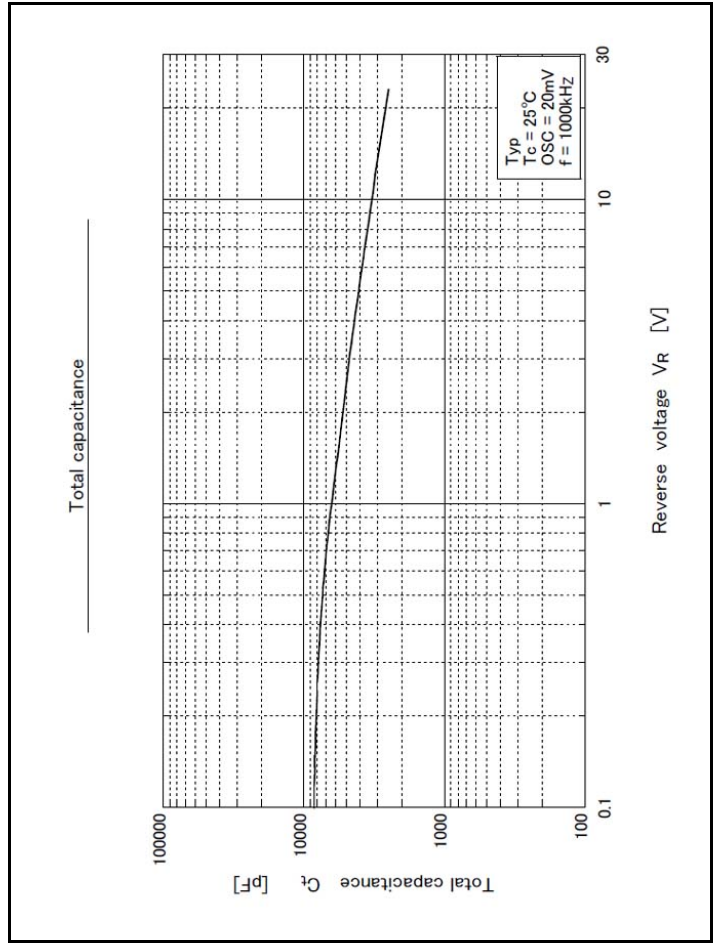
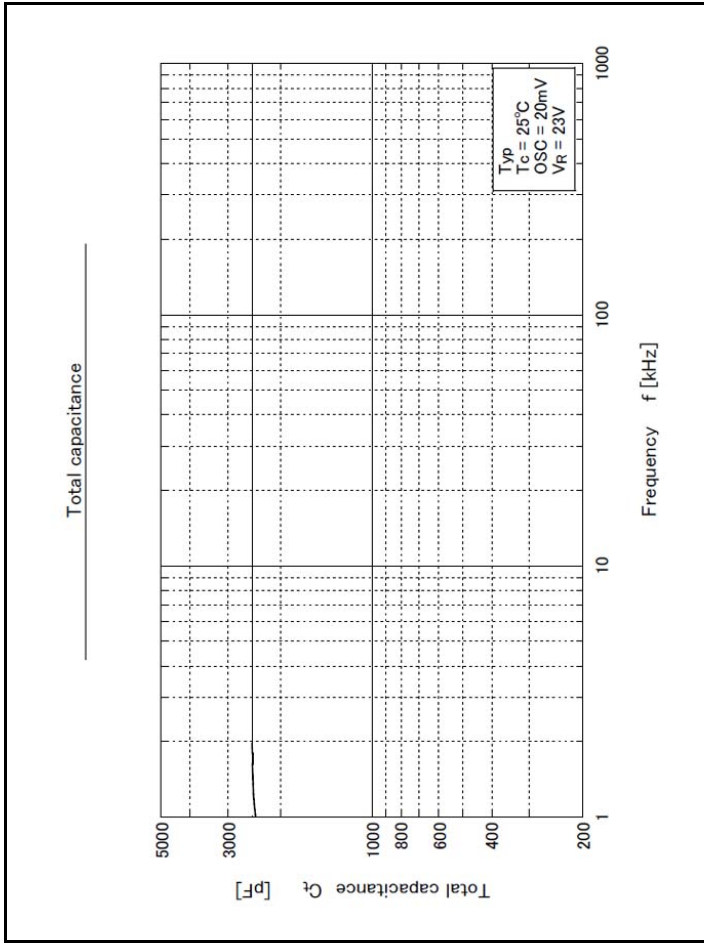
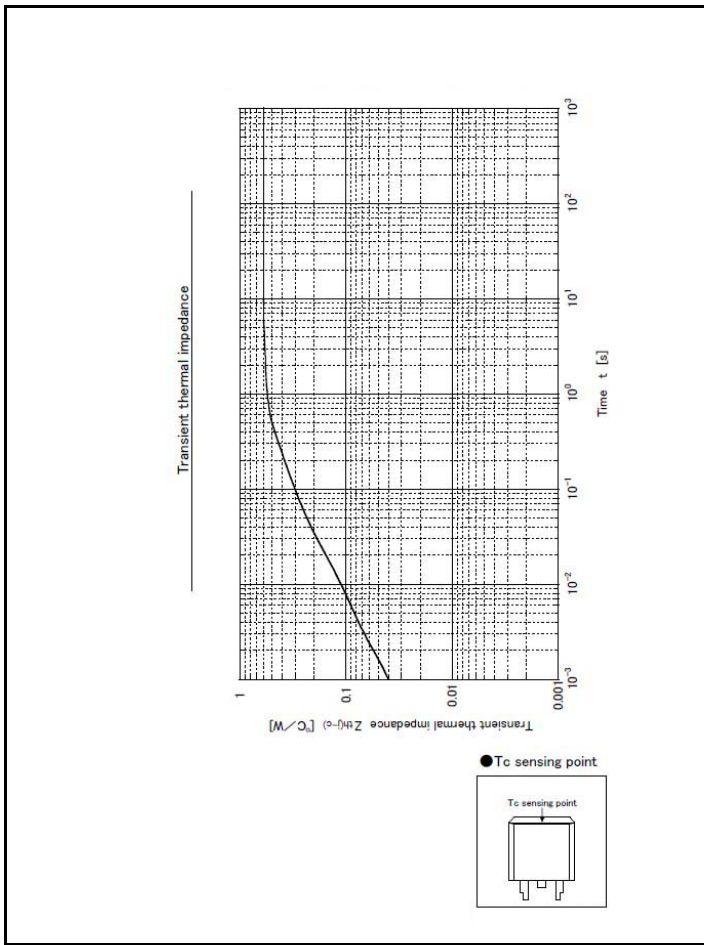
### Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Breakdown voltage	V <sub>BR</sub>	I <sub>R</sub> =1mA, Pulse measurement	25		29	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =23V, Pulse measurement			5	μA
Thermal resistance	R <sub>th(j-c)</sub>	Junction to case, With heatsink			0.6	°C/W

\* :See the original Specifications

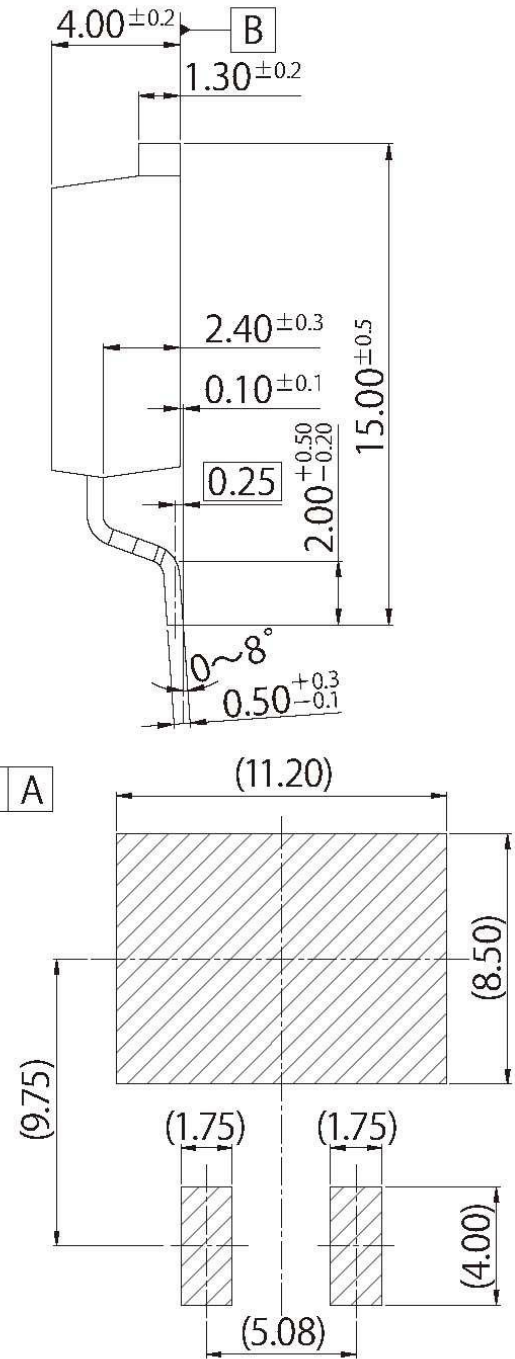
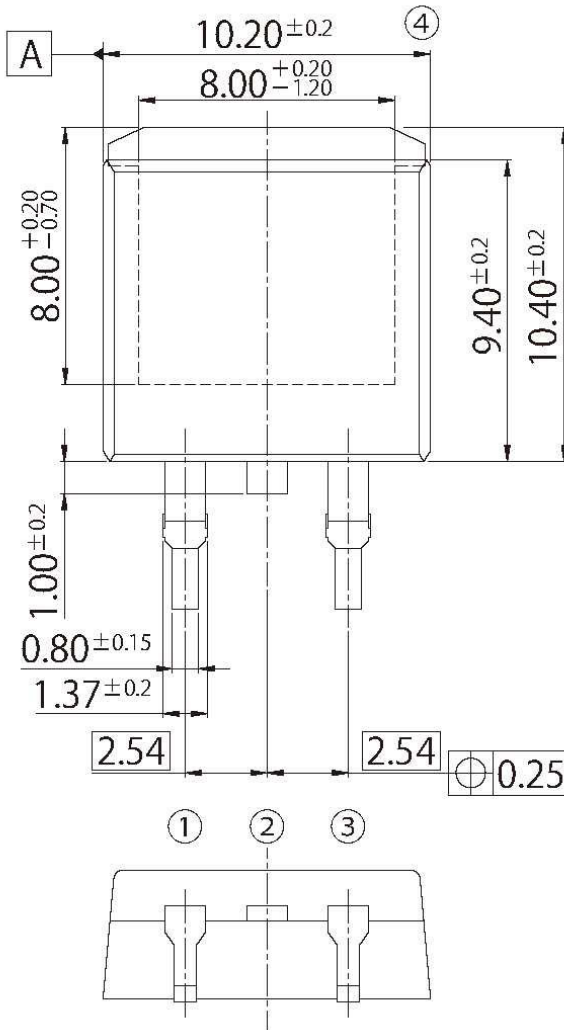
# CHARACTERISTIC DIAGRAMS





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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