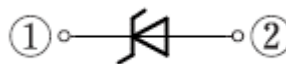


ST04-24F1**TVS****12A, 400W****Feature**

- Peak pulse power:400W
- Small SMD
- Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

OUTLINE**Package (House Name):** 1F**Package (JEDEC Code):** DO-214AC**Equivalent circuit****Absolute Maximum Ratings** (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T _{stg}		-55 to 175	°C
Operating junction temperature	T _j		-55 to 175	°C
Maximum surge reverse current	I _{RSM}	10/1000μs, Non-repetitive ※	12	A
Maximum surge reverse power	P _{RSM}	10/1000μs, Non-repetitive ※	400	W
Continuous (direct) reverse voltage	V _{R(DC)}		20	V

※ : See the original Specifications

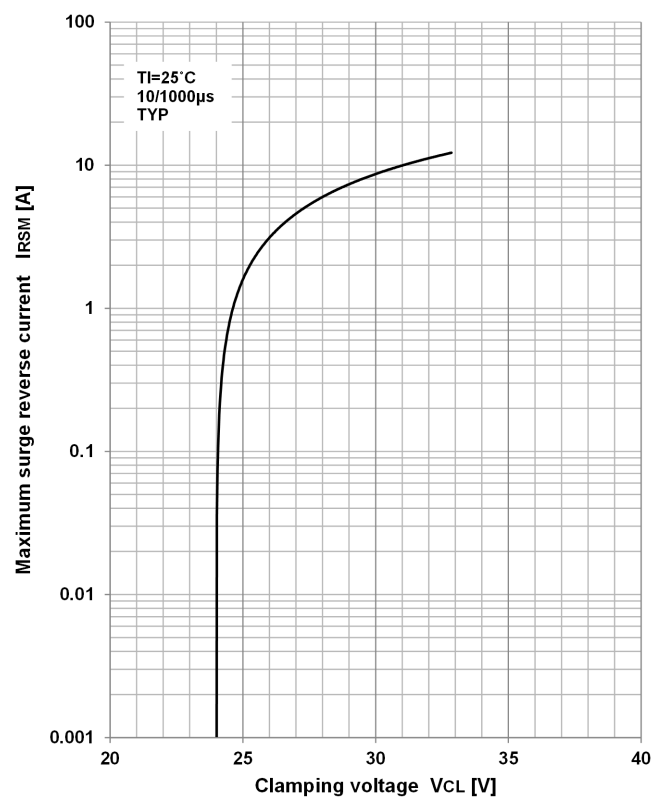
Electrical Characteristics (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Breakdown voltage	V _{BR}	IR=1mA, Pulse measurement	22.8		25.6	V
Reverse current	I _R	VR=20V, Pulse measurement			5	μA
Electrostatic discharge capability	V _{ESD}	C=330pF, R=330Ω, Polarity±, Aerial discharge ※		30		kV
Thermal resistance	R _{th(j-l)}	Junction to lead, On glass-epoxy substrate ※			23	°C/W
Thermal resistance	R _{th(j-a)}	Junction to ambient, On glass-epoxy substrate ※			157	°C/W

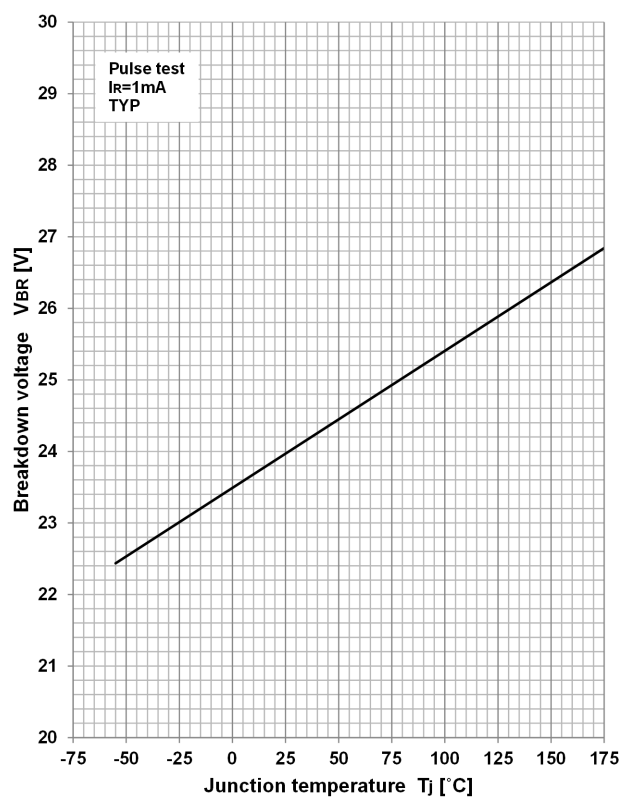
※ : See the original Specifications

CHARACTERISTIC DIAGRAMS

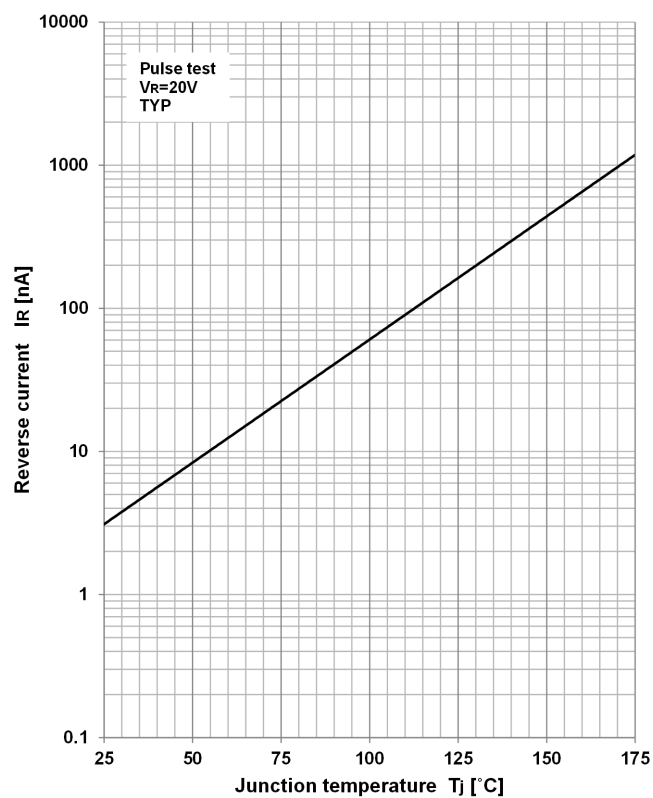
**Maximum surge reverse current
vs Clamping voltage**



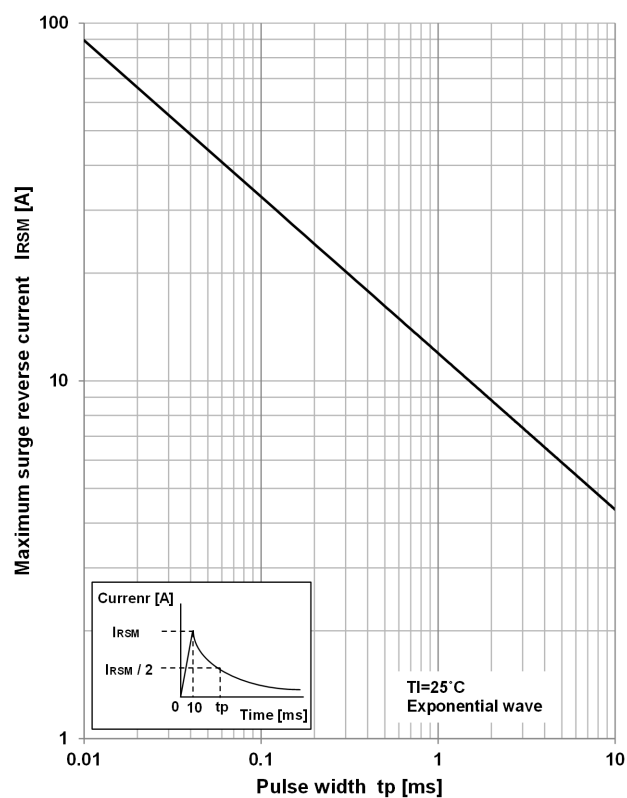
Breakdown voltage vs Junction temperature

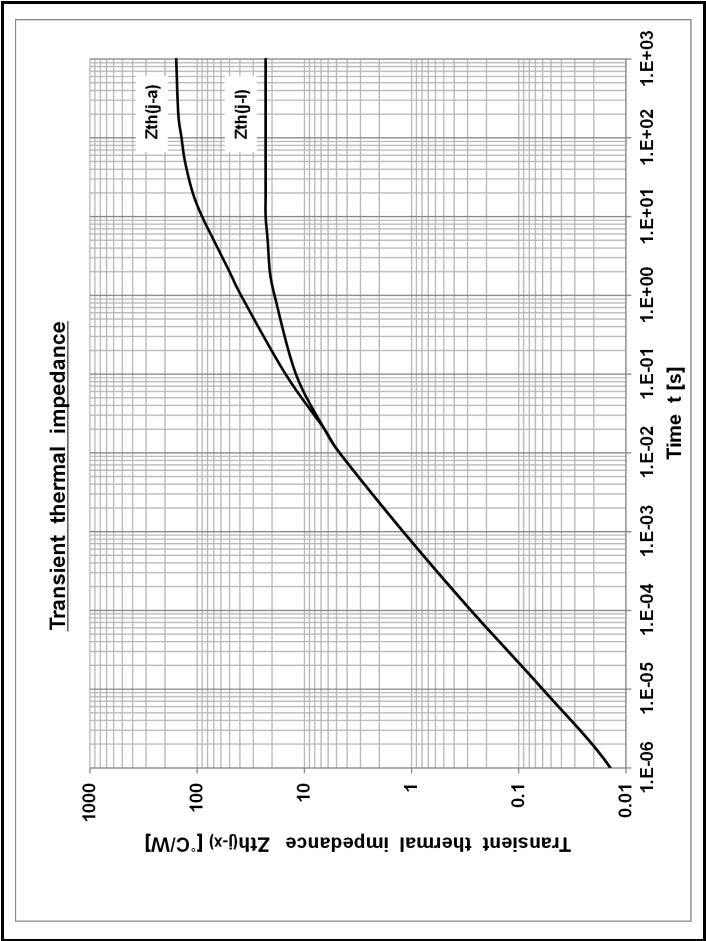
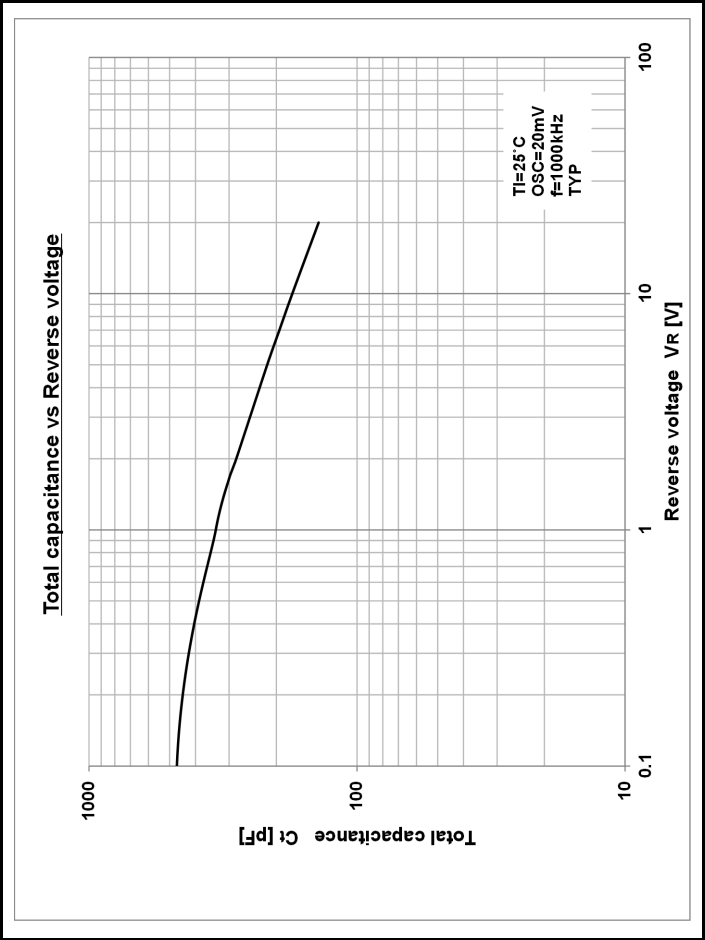
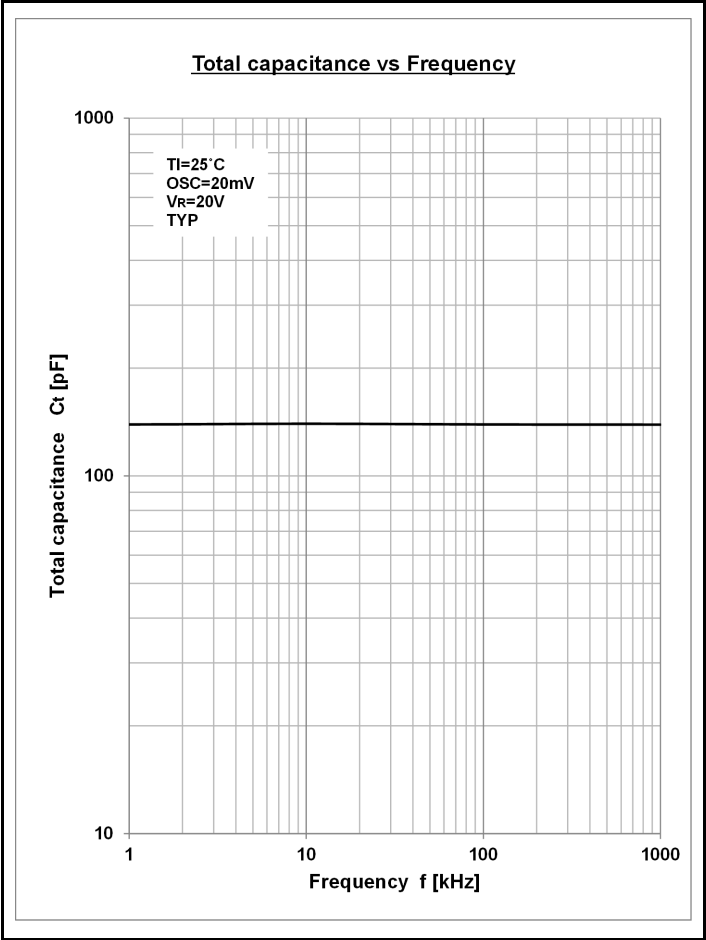


Reverse current vs Junction temperature



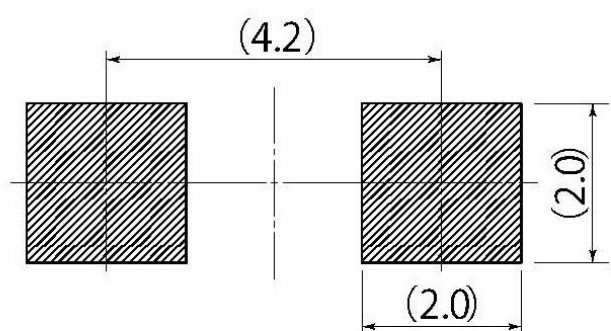
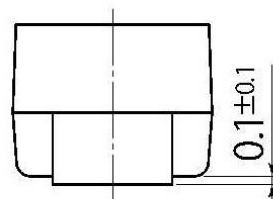
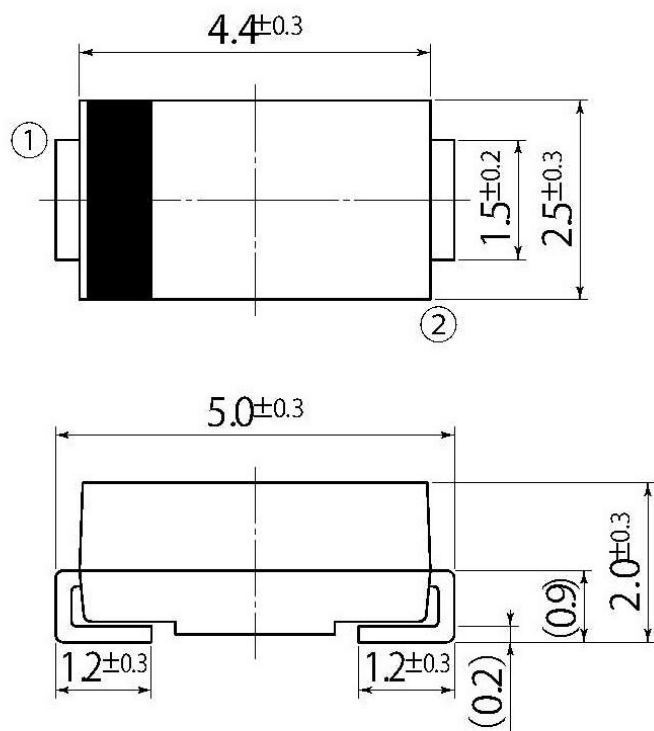
Maximum surge reverse current vs Pulse width





B3

JEDEC Code	DO-214AC
JEITA Code	—
House Name	1F



Referential Soldering Pad

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

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