

DL20B-30F2

TVS  
46A, 2000W

Feature

- Peak pulse power:2000W
- Bi-directional
- SMD
- High Speed
- Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 2F



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : Tl=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 <sub>RSM</sub>	10/1000μs, Non-repetitive ※	46	A
Maximum surge reverse power	P <sub>RSM</sub>	10/1000μs, Non-repetitive	2000	W
Continuous (direct) reverse voltage	V <sub>R(DC)</sub>		24	V

※ :See the original Specifications

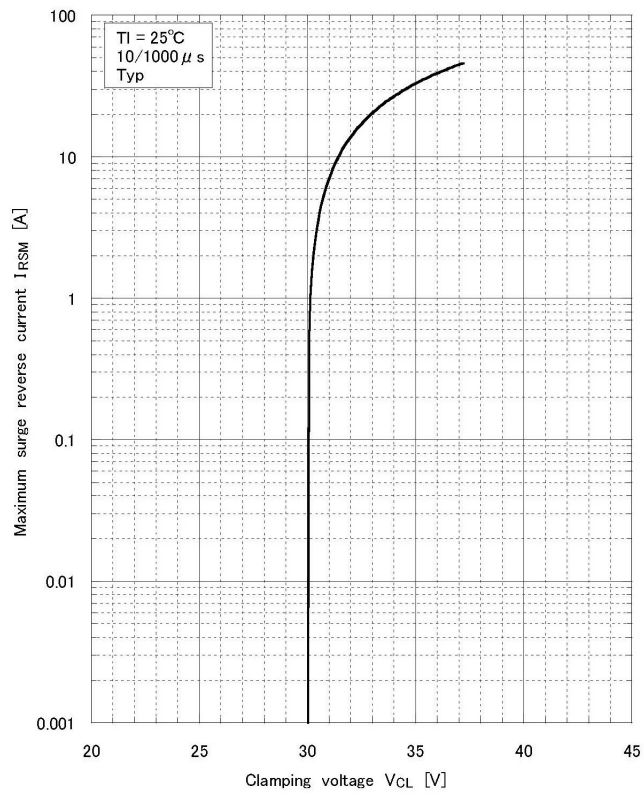
Electrical Characteristics (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Breakdown voltage	V <sub>BR</sub>	IR=1.0mA	28		32	V
Reverse current	I <sub>R</sub>	VR=24V, Pulse measurement			5	μA
Electrostatic discharge capability	V <sub>ESD</sub>	C=330pF, R=330Ω, Polarity±, Aerial discharge ※		30		kV
Thermal resistance	Rth(j-l)	Junction to lead ※			23	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate ※			115	°C/W

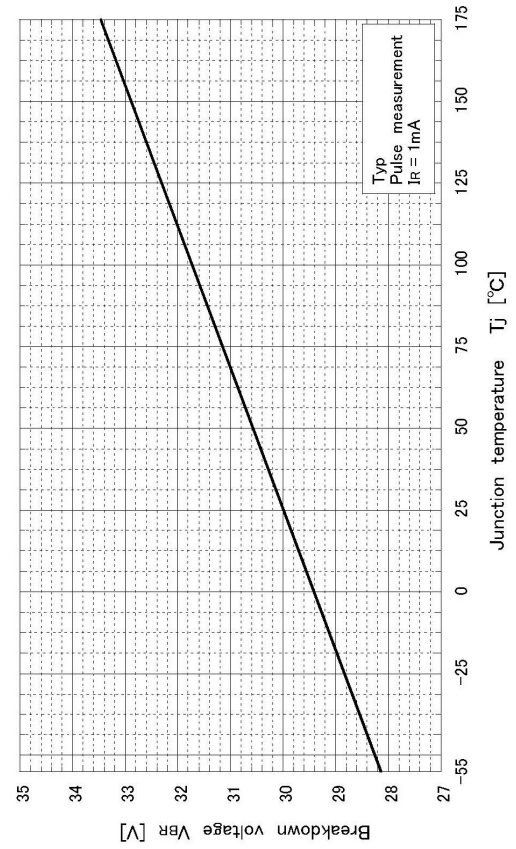
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

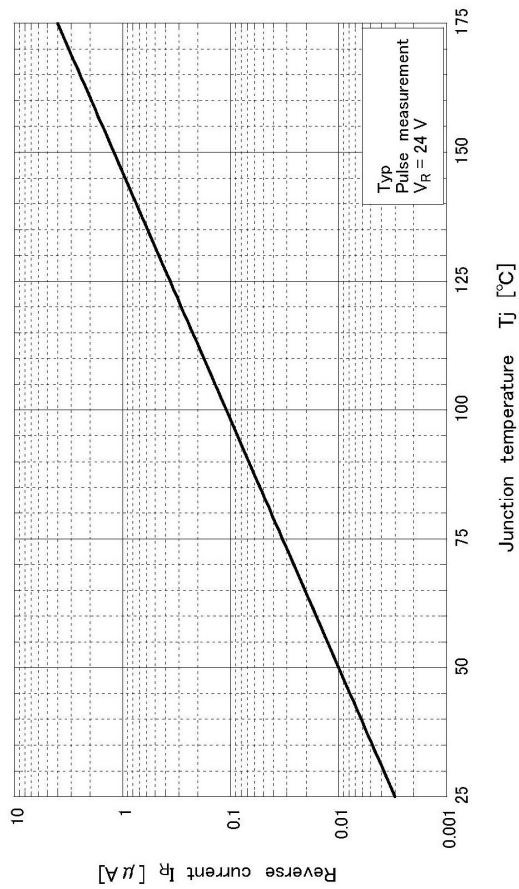
Maximum surge reverse current vs Clamping voltage



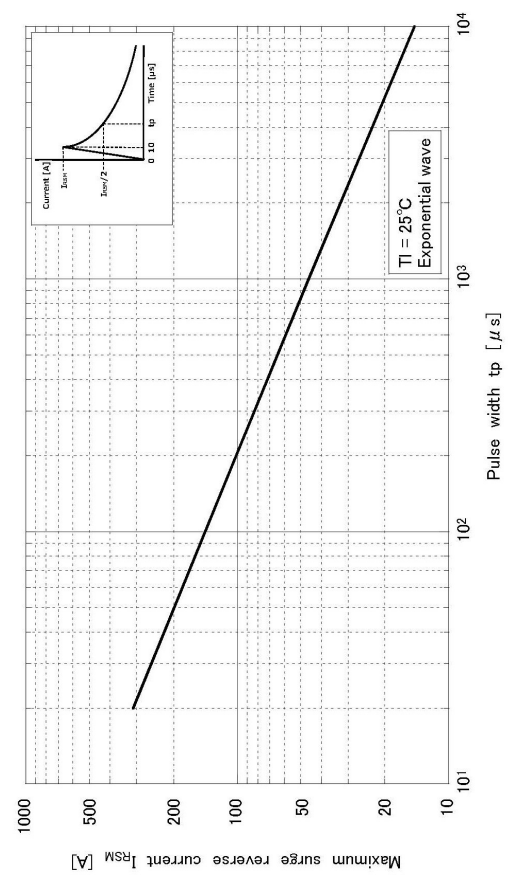
Breakdown voltage vs Junction temperature

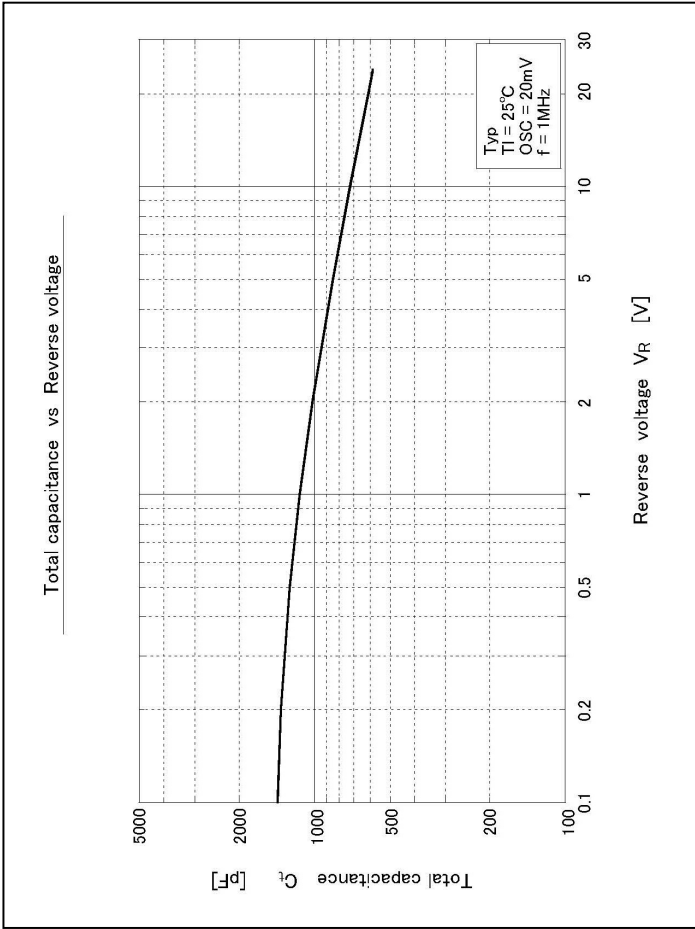
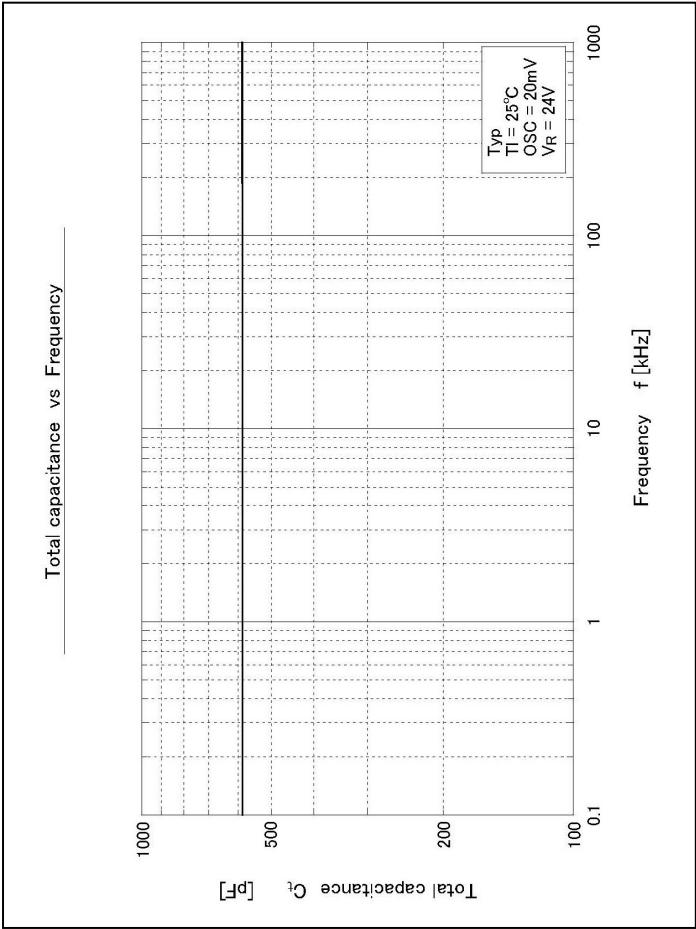
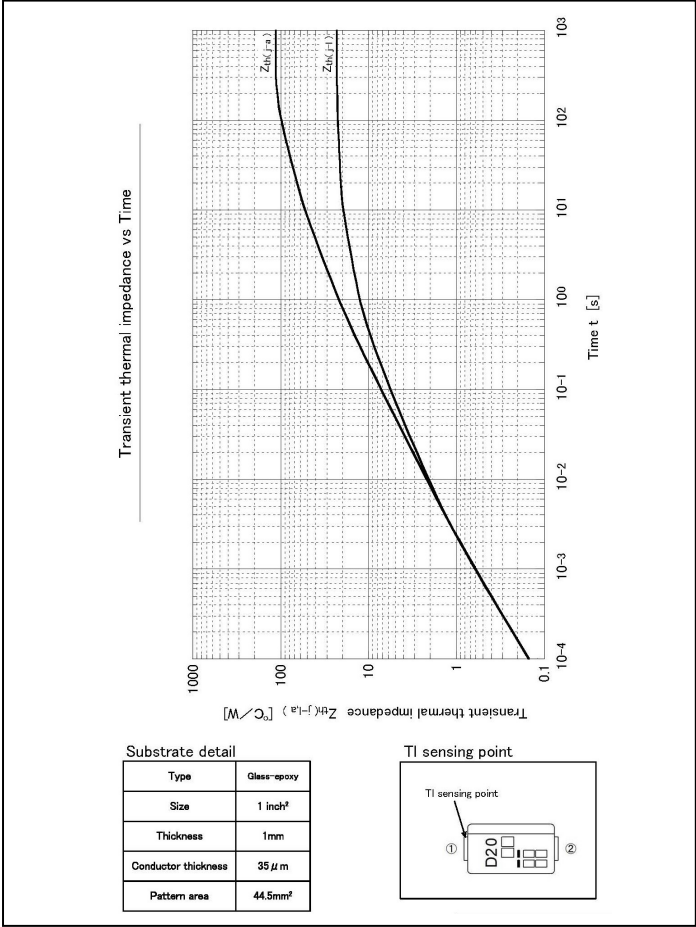


Reverse current vs Junction temperature



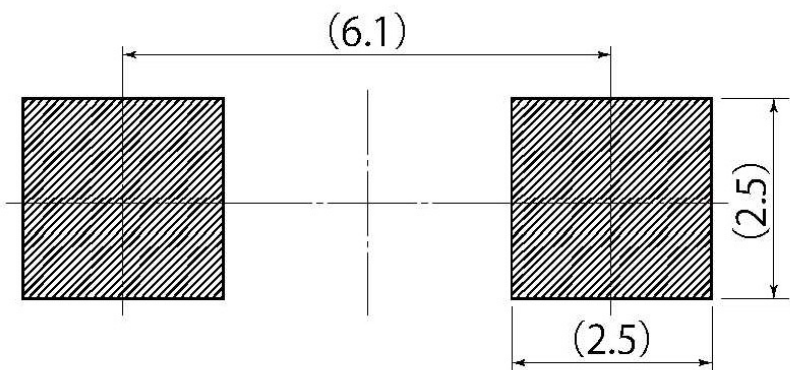
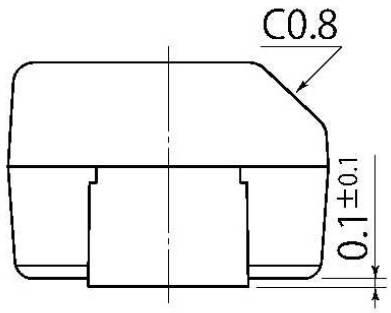
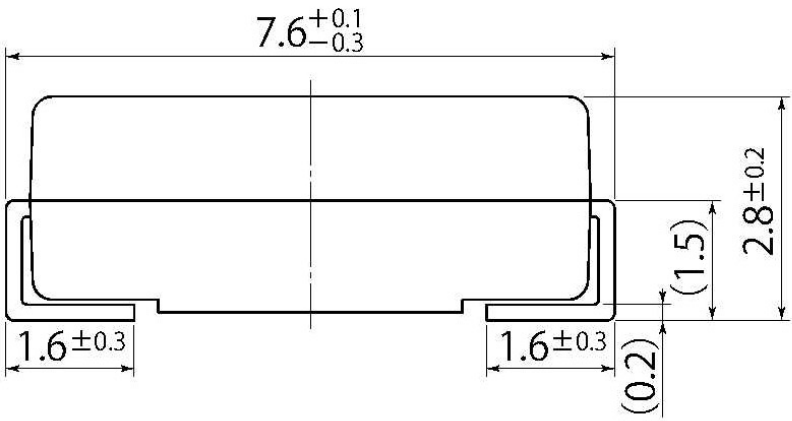
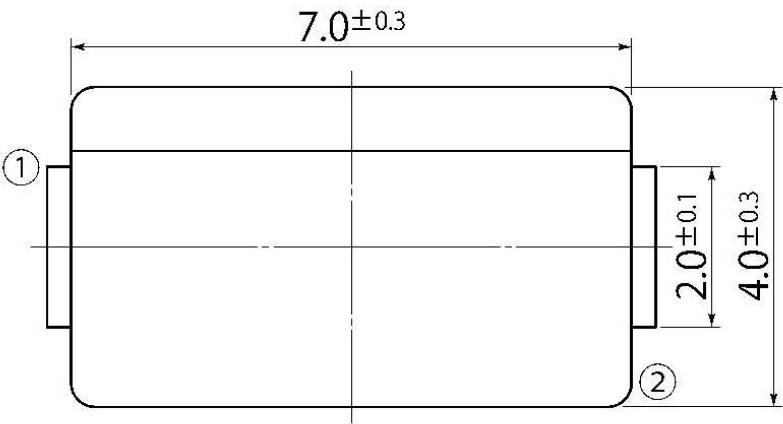
Maximum surge reverse current vs Pulse width





B11

JEDEC Code	—
JEITA Code	—
House Name	2F



Referential Soldering Pad

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