

Best suited for overvoltage protection of electronic system:  
 Electronic system for use in automobiles  
 Electronic system for commercial use  
 Electronic system for industrial use  
 For communications, controls, measuring instruments, etc.

#### FEATURES

- Excellent clamp voltage characteristics that protect electronic system from any kind of surge
- High surge power withstanding capabilities that absorb load dump surge
- Excellent surge responsibility for steep surge absorption
- Surface mount type is available for easy applications
- Corresponds to taping packages.
- Automotive AEC Q101 Qualified
- MSL Level 1 guaranteed ( T<sub>peak</sub>=260 °C)

#### MAXIMUM RATINGS (Ta=25 °C)

CHARACTERISTIC	Symbol	Rating	Unit
Allowable Power Dissipation(Note 1)	P	5	W
Peak Pulse Power Dissipation with 10/1,000µs wave form	P <sub>PPM</sub>	3,600	W
Peak Pulse Power Dissipation with 10/10,000µs wave form	P <sub>PPM</sub>	3,200	W
Non-Repetitive Peak Reverse Surge Current (See Fig1 for the exponents)	I <sub>RSM</sub>	70	A
Junction Temperature	T <sub>J</sub>	-55~175	°C
Storage Temperature Range	T <sub>STG</sub>	-55~175	°C

Note 1 : Lead tip temperature T<sub>L</sub> = 25°C.

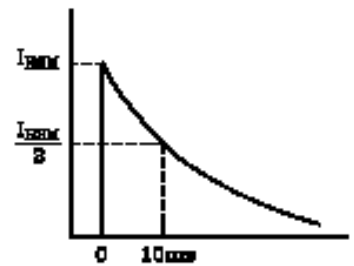
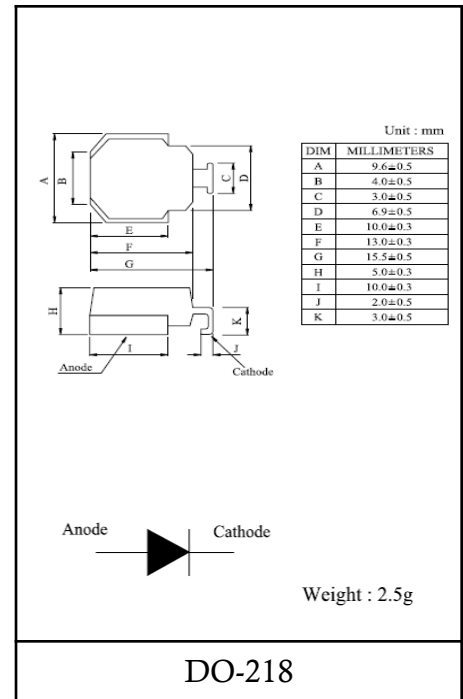
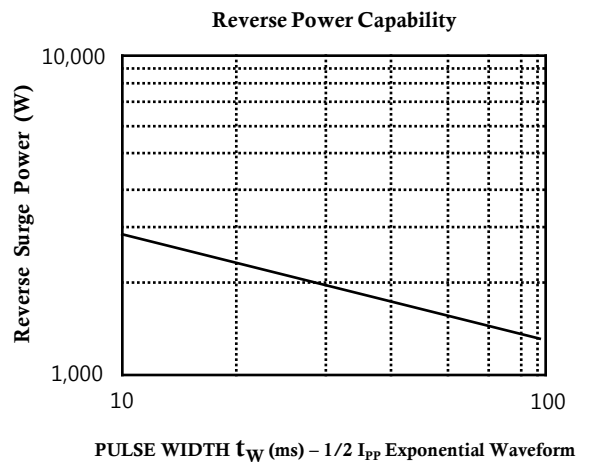
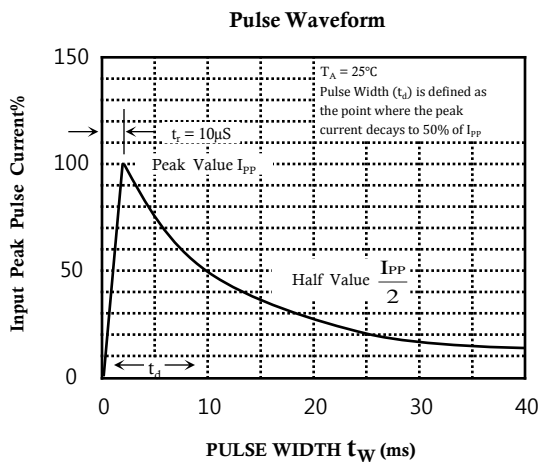
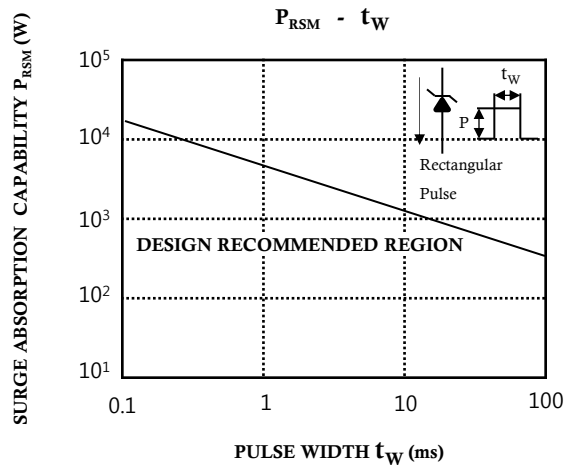
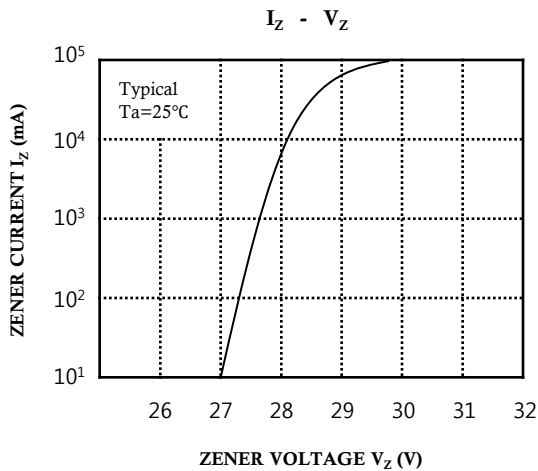
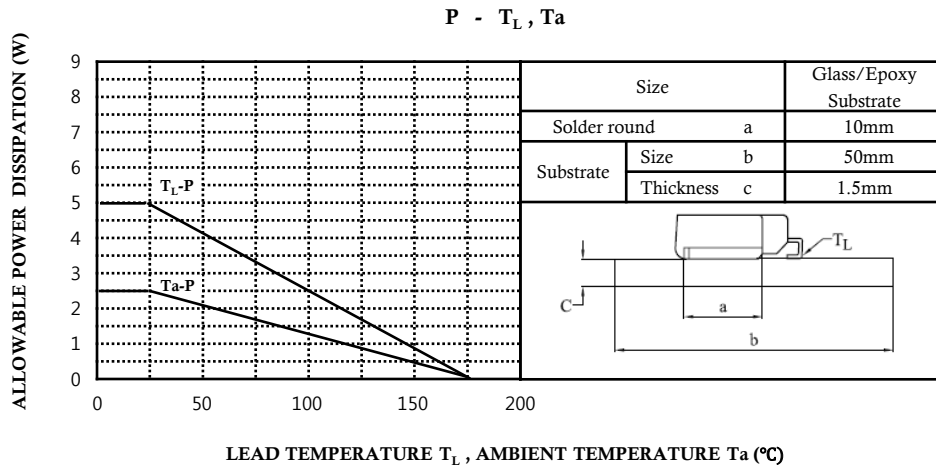


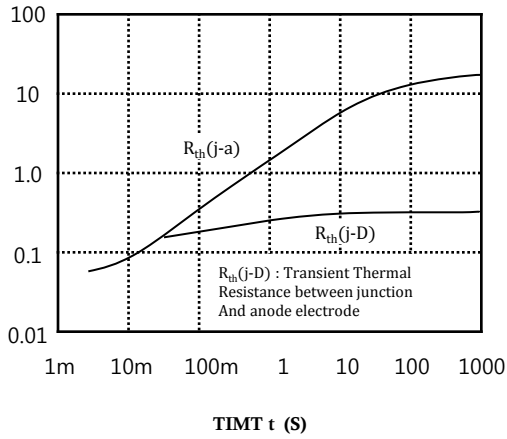
Fig1

#### ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	Symbol	Test Condition	MIN	TYP	MAX	Unit
Zener Voltage	V <sub>Z</sub>	I <sub>Z</sub> =10mA	24	27	30	V
Operating Resistance	r <sub>d</sub>	I <sub>Z</sub> =10mA	-	-	30	Ω
Temperature Coefficient	α <sub>T</sub>	I <sub>Z</sub> =10mA	-	23	36	mV / °C
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =6A	-	-	1.0	V
		I <sub>F</sub> =100A	-	-	1.2	
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =22V	-	-	10	µA
Clamping Voltage	V <sub>C</sub>	I <sub>RSM</sub> =55A	-	-	40	V



**R<sub>th</sub> - t**



**I<sub>F</sub> - V<sub>F</sub>**

