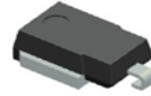
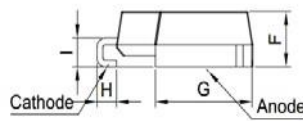
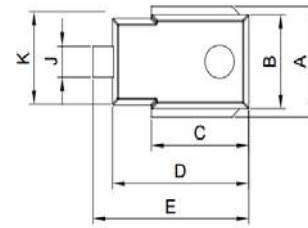


**Features**

- High surge power withstanding capabilities that absorb load dump surge.
- Low leakage current
- Low forward voltage drop
- Available in uni-directional polarity only
- RoHS compliant

Applications

- Suitable to protect sensitive automotive circuit against surges and against load Dump surge
- Electronic system for use in automobile
- Electronic system for industrial use
- Electronic system for commercial use
- For communication, controls, measuring, instruments, etc.

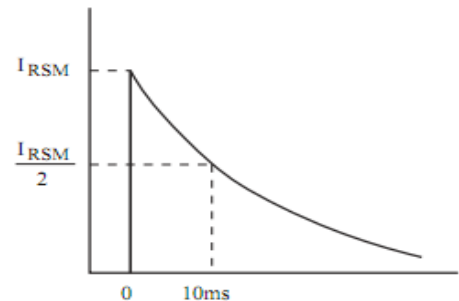
**ZENER DIODE SILICON
DIFFUSED-JUNCTION TYPE****DO-218**RoHS
COMPLIANT

Dim.	mm
A	9.5-10.5
B	8.3-8.7
C	9.7-10.3
D	13.8-14.2
E	15.5-16.5
F	4.8-5.0
G	8.7-9.3
H	1.5-2.5
I	2.5-3.0
J	2.5-3.0
K	7.7-7.9

Package Outline Dimensions in Millimeters

MAXIMUM RATING (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Allowable Power Dissipation (Note1)	P	6	W
Peak pulse power dissipation with 10/1,000us waveform	P _{PPM}	4,600	W
Peak pulse power dissipation with 10/10,000us waveform	P _{PPM}	3,600	W
Non-Repetitive Peak Reverse Surge Current (See Fig.1 for the exponents.)	I _{RSM}	90	A
Operate Junction Temperature	T _J	-55~175	°C
Storage Temperature Range	T _{stg}	-55~175	°C

Note 1 : Lead tip temperature T_L=25°C**ELECTRICAL CHARACTERISTICS (Ta=25°C)**

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Breakdown Voltage	V _Z	I _Z =10mA	24	27	30	V
Operating Resistance	r _d	I _Z =10mA	-	-	30	Ω
Temperature Coefficient	α _T	I _Z =10mA	-	23	36	mV/°C
Forward Voltage Drop	V _F	I _F =6A	-	-	0.95	V
		I _F =100A	-	-	1.10	V
Reverse Leakage Current	I _R	V _R =22V	-	-	10	μA
Clamping Voltage	V _c	I _{RSM} =65A	-	-	40	V



RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)

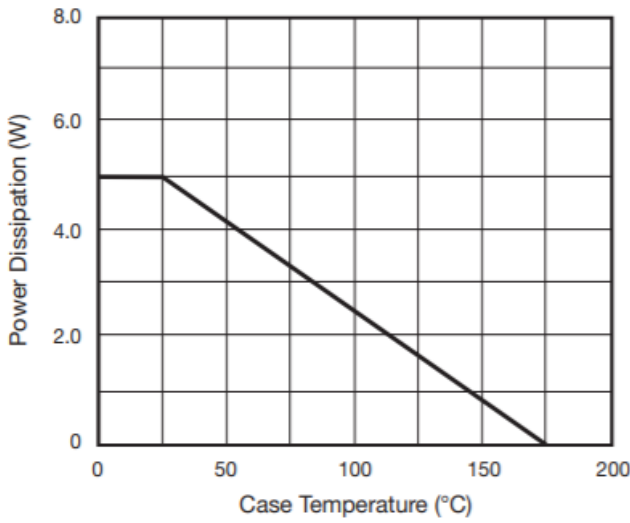


Fig. 1 - Power Derating Curve

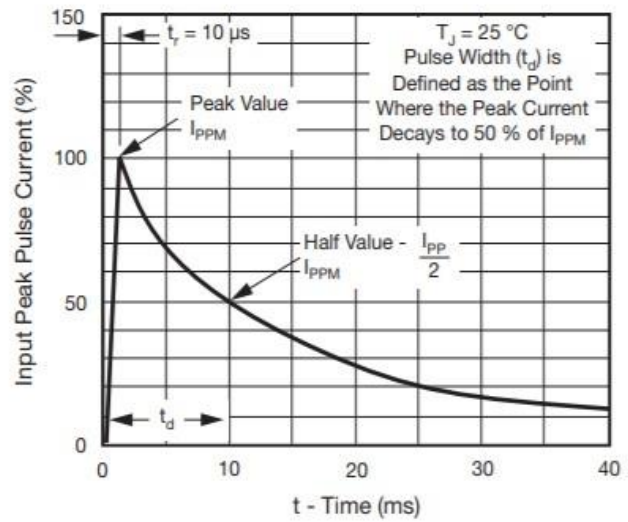


Fig. 3 - Pulse Waveform

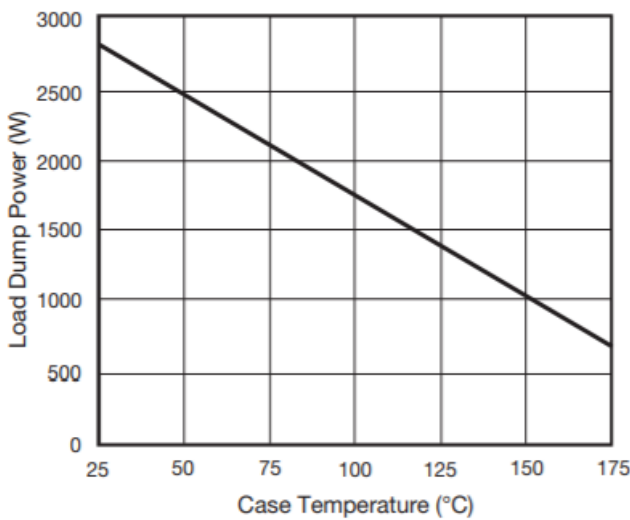


Fig. 2 - Load Dump Power Characteristics (10 ms Exponential Waveform)

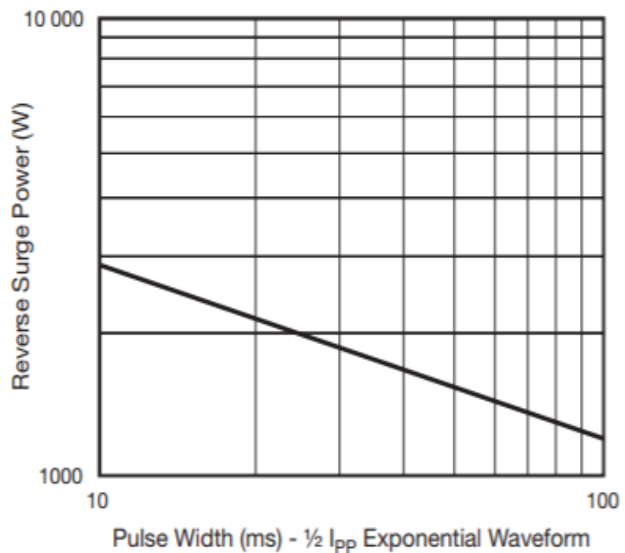
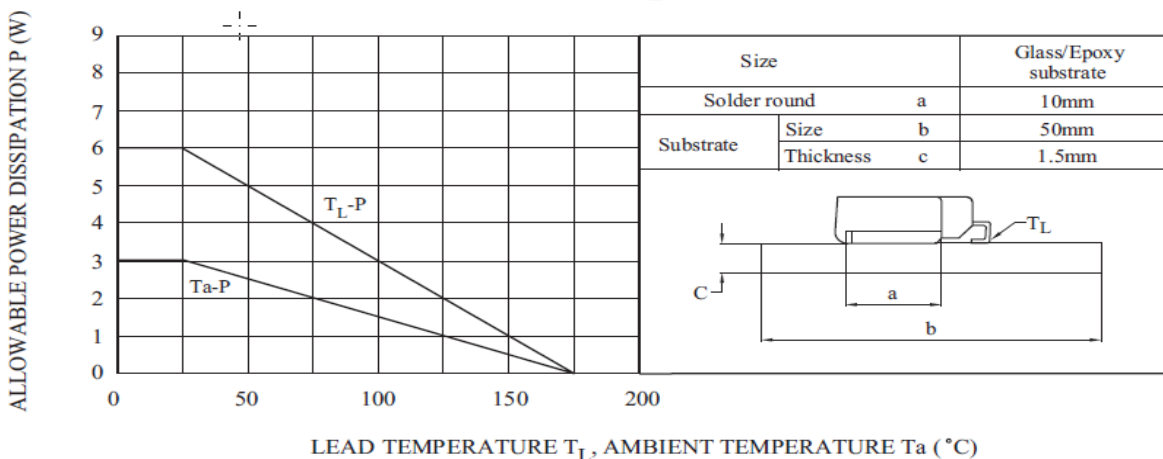


Fig. 4 - Reverse Power Capability

P - T_L, T_a



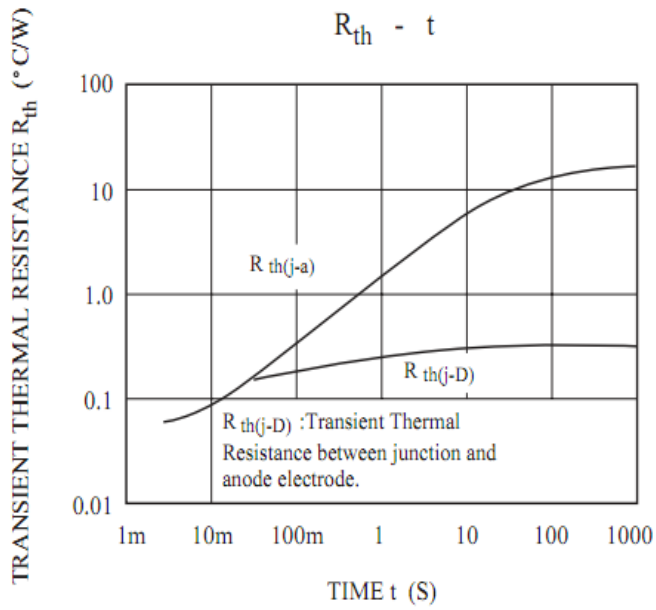


Fig.6 –Typical Transient Impedance

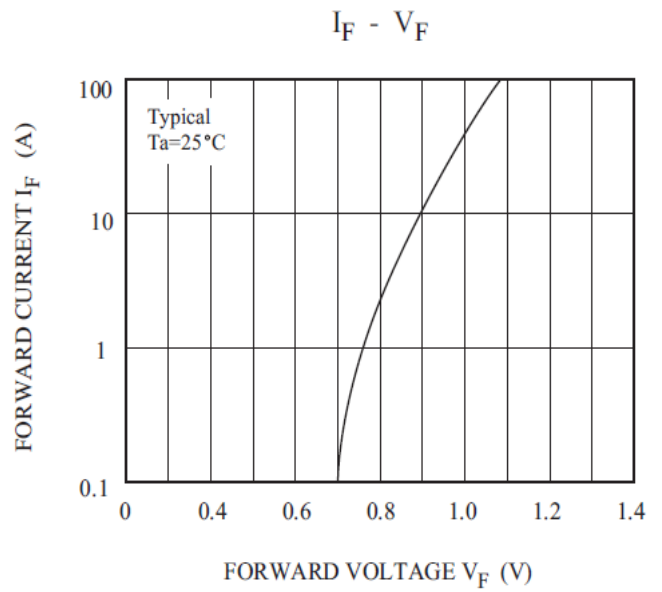


Fig. 7-Typical Forward Voltage