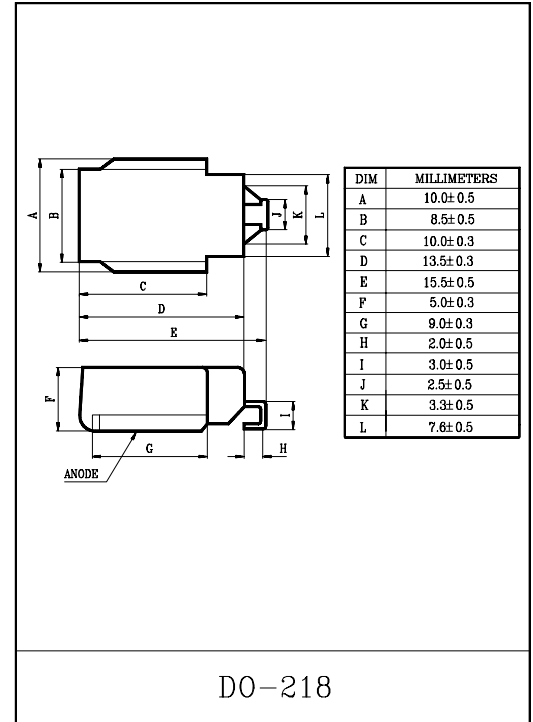


BEST SUITED FOR OVERVOLTAGE PROTECTION OF ELECTRONIC SYSTEM :  
ELECTRONIC SYSTEM FOR USE IN AUTOMOBILES  
ELECTRONIC SYSTEM FOR COMMERCIAL USE  
ELECTRONIC SYSTEM FOR INDUSTRIAL USE  
FOR COMMUNICATIONS, CONTROLS, MEASURING INSTRUMENTS, ETC.

#### 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. Zxial lead type is also available.
- Although the typical zener voltage is  $V_Z=27V$ , we can provide the products other than the typical values.
- Corresponds to taping packages. (500P/Reel)



#### MAXIMUM RATINGS ( $T_a=25^\circ C$ )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Allowable Power Dissipation (Note 1)	P	5	W
Non-Repetitive Peak Reverse Surge Current (See Fig.1 for the exponents.)	$I_{RSM}$	62	A
Junction Temperature	$T_j$	-40~150	$^\circ C$
Storage Temperature Range	$T_{stg}$	-40~150	$^\circ C$

Note 1 : Lead tip temperature  $T_L=25^\circ C$ .

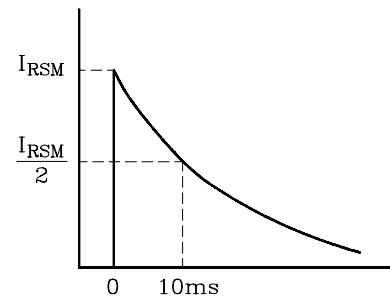


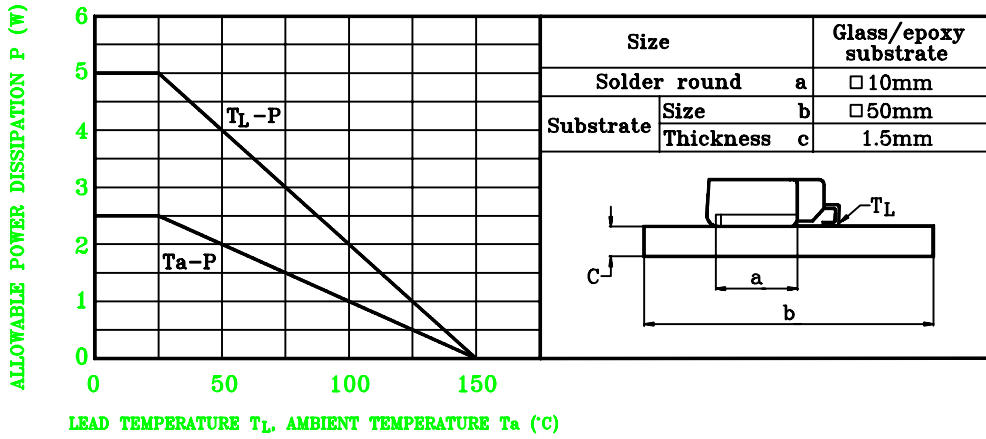
Fig.1

#### ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ C$ )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Zener Voltage	$V_Z$	$I_Z=10mA$	24.0	27	30.0	V
Operating Resistance	$r_d$	$I_Z=10mA$	-	-	30	$\Omega$
Temperature Coefficient	$\alpha_T$	$I_Z=10mA$	-	23	36	$mV/^\circ C$
Forward Voltage	$V_F$	$I_F=6A$	-	-	1.2	V
Reverse Current	$I_R$	$V_R=22V$	-	-	10	$\mu A$

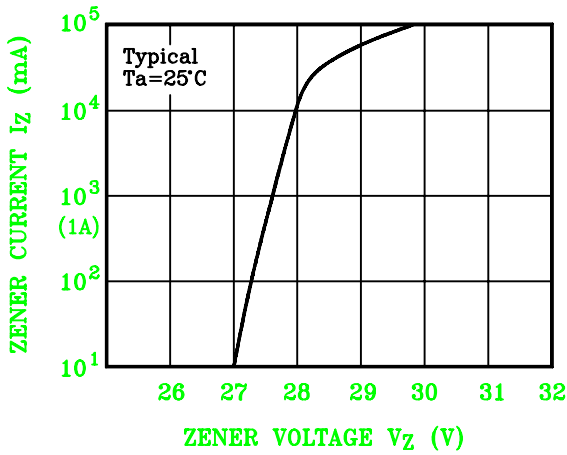
# Z5W27V

P-T<sub>L</sub>, T<sub>a</sub>

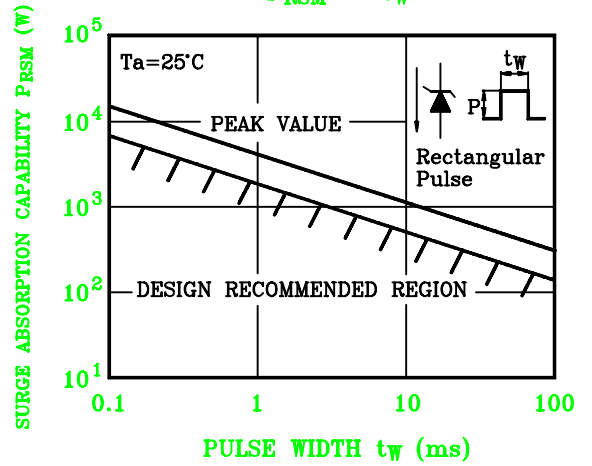


LEAD TEMPERATURE T<sub>L</sub>, AMBIENT TEMPERATURE T<sub>a</sub> (°C)

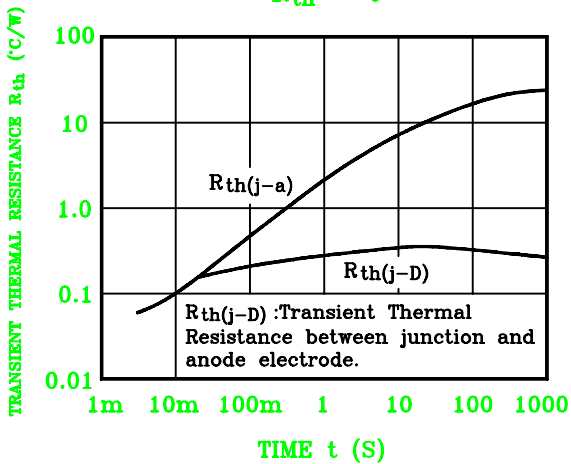
I<sub>Z</sub> - V<sub>Z</sub>



P<sub>PRSM</sub> - t<sub>w</sub>



R<sub>th</sub> - t



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

