To our customers,

Old Company Name in Catalogs and Other Documents

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Renesas Electronics website: http://www.renesas.com

April 1st, 2010
Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (http://www.renesas.com)

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RENESAS

ZENER DIODE

RD6.2Z

ZENER DIODE
200 mW ESD PROTECTION (5 V Signal Line) MINI MOLD

DESCRIPTION

Type RD6.2Z is planar type zener diode possessing an allowable power dissipation of 200 mW.

The purpose is ESD PROTECTION of 5 V Signal Line.

FEATURES

- Low Terminal Capacitance (8 pF TYP.) for ESD protection
- Surge absorber on either side

APPLICATIONS

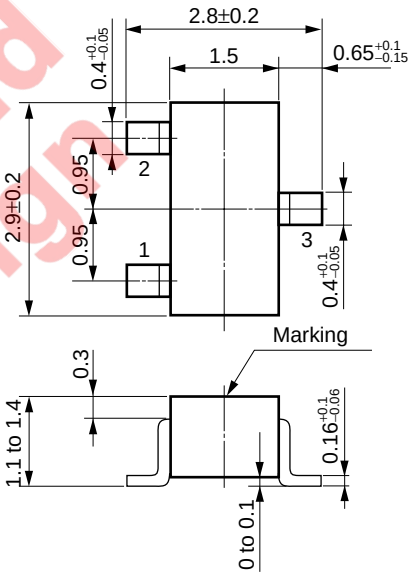
- ESD protect circuit of 5 V Signal Line.
- Constant Voltage, Constant Current, etc.

MAXIMUM RATINGS (T_A = 25°C)

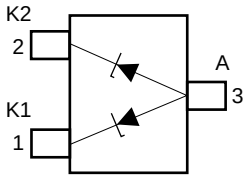
Power Dissipation	P	200 mW (Total)
Surge Reverse Power	P_{RSM}	2 W (t = 10 μs, 1 pulse) Fig.5
Junction Temperature	T_j	150°C
Storage Temperature	T_{stg}	–55°C to +150°C

PACKAGE DIMENSIONS

(Unit: mm)



1. Cathode : K1
2. Cathode : K2 SC-59 (EIAJ)
3. Anode : A



ELECTRICAL CHARACTERISTICS (T_A = 25 ± 2°C)

Type Number	Zener Voltage V_Z (V) Note 1			Dynamic Impedance Z_Z (Ω) Note 2		Reverse Current I_R (μA)		Terminal Capacitance C_t (pF), f = 1 MHz	
	MIN.	MAX.	I_Z (mA)	MAX.	I_Z (mA)	MAX.	V_R (V)	TYP.	V_R (V)
RD6.2Z	5.9	6.5	5	60	5	3	5.5	8	0

Note 1. Tested with pulse (40 ms)

2. Z_Z is measured at I_Z given a very small A.C. signal

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TYPICAL CHARACTERISTICS (T_A = 25°C)

Fig. 1 P-T_A RATING

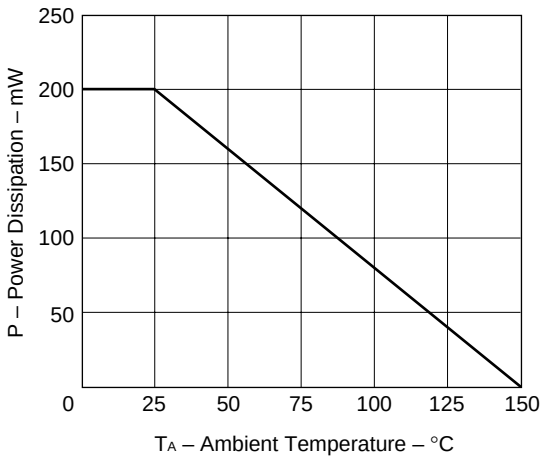


Fig. 2 I_Z-V_Z CHARACTERISTICS

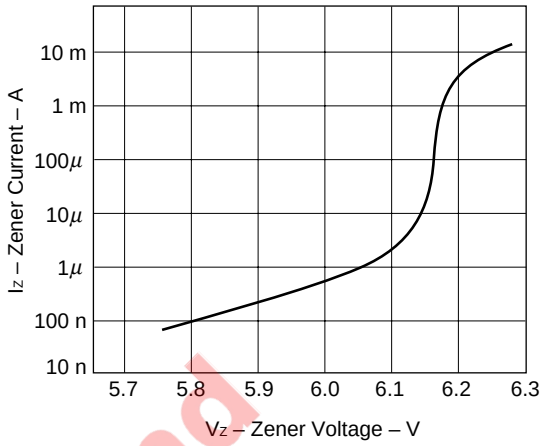


Fig. 3 C_t-V_R CHARACTERISTICS
(f = 1 MHz)

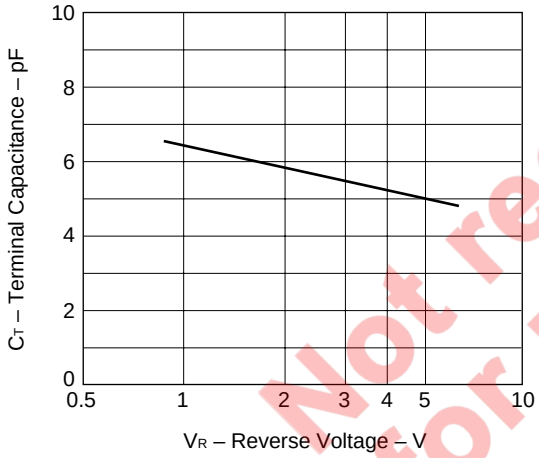


Fig. 4 TRANSIENT THERMAL IMPEDANCE CHARACTERISTICS
(7.5 × 10 × 0.675 mm ceramics)

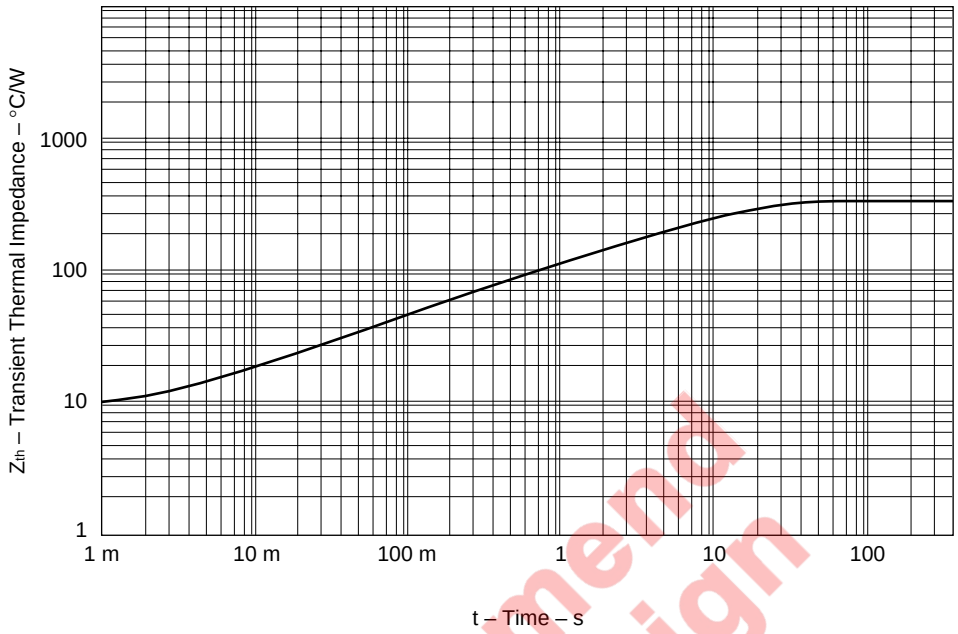
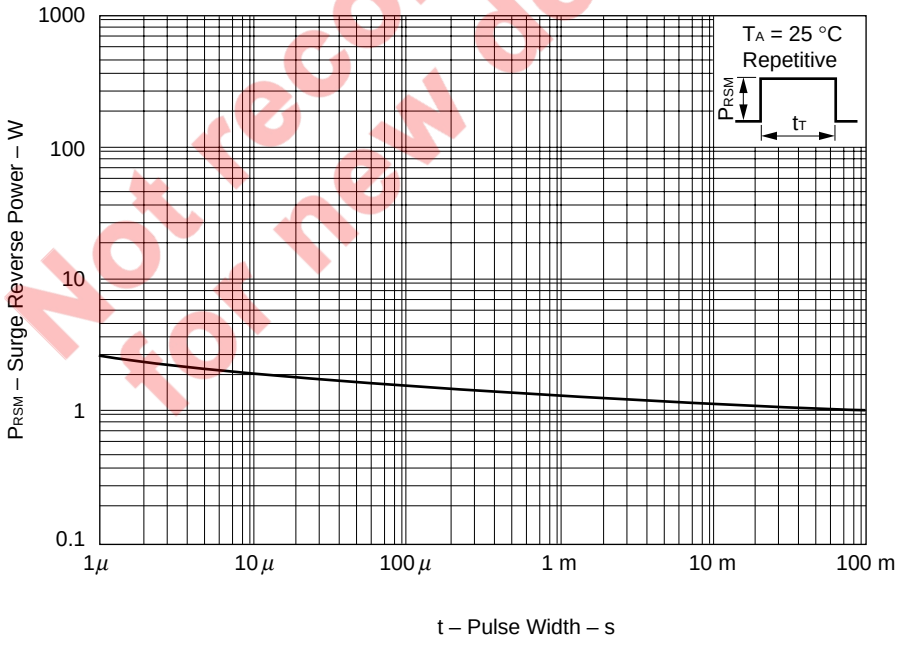


Fig. 5 SURGE REVERSE POWER RATINGS



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