



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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MALS068X

Silicon planar type

For constant voltage and surge absorption circuits

■ Features

- Bi-directional and high electrostatic discharge ESD
- Small terminal capacitance C_t

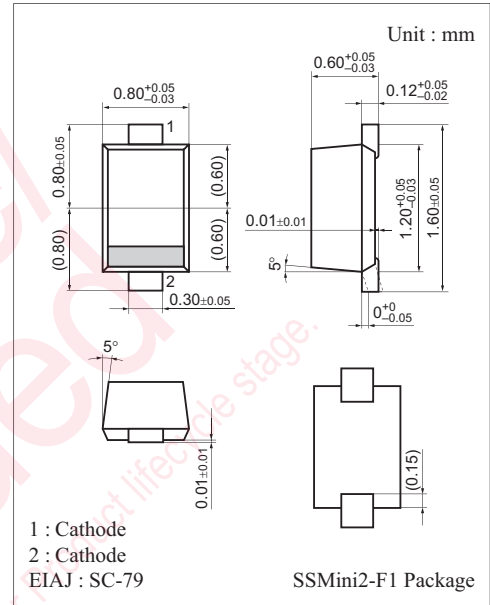
■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Repetitive peak forward current	I_{FRM}	200	mA
Total power dissipation *1	P_T	150	mW
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$
Electrostatic discharge *2	ESD	± 15	kV

Note) *1: $P_T = 150$ mW achieved with a printed circuit board.

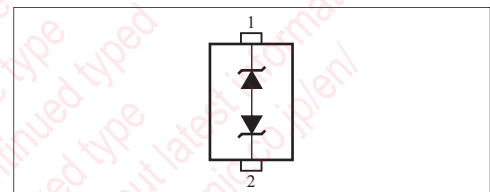
*2: Test method: IEC61000-4-2

($C = 150$ pF, $R = 330 \Omega$, Contact discharge: 10 times)



Marking Symbol: RX

Internal Connection



■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Zener voltage *	V_Z	$I_Z = 5$ mA	6.5	7.0	7.5	V
Zener operating resistance	R_Z	$I_Z = 5$ mA			20	Ω
Reverse current	I_R	$V_R = 4.0$ V			50	nA
Terminal capacitance	C_t	$V_R = 0$ V, $f = 1$ MHz		15		pF

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

2. The temperature must be controlled 25°C for V_Z measurement.

V_Z value measured at other temperature must be adjusted to $V_Z (25^\circ\text{C})$

3. *: V_Z guaranteed 20 ms after current flow.

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