Bi-Directional Zener Diodes

RSB16F2

●**Outline**

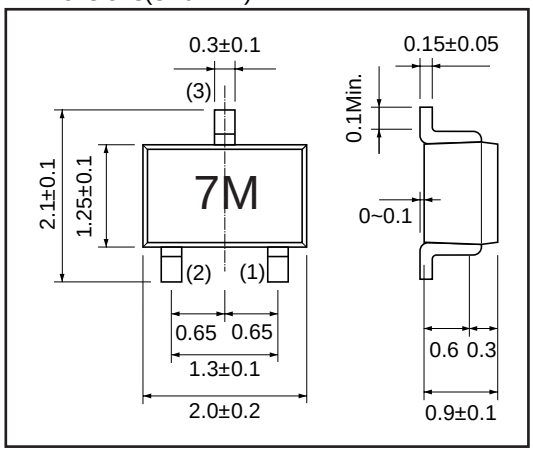
RSB16F2 is a bi-directional zener diode having two zeners confronted in one package, aimed to absorb the surge in plus and minus directions arising from the signal line in mobile phone, consumer electronics such as PC, and automotive applications.

In general, two pieces of zener diodes are used as ESD protector to absorb the surge in +/ - directions. Paying attention to this point and using its original technology, ROHM succeeded to incorporate 2 zeners in one die / package for benefit of space-saving on the circuit board.

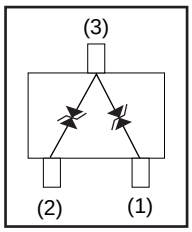
●**Features**

1) Absorption of plus & minus surge with one package.
2) Decrease of components and space-saving on the circuit board.

●**Dimensions**(Unit : mm)



●**Structure**



●**Absolute maximum ratings** (Ta=25°C)

Parameter	Symbol	Limits	Unit
Power dissipation (*1)	Pd	200	mW
Junction temperature	Tj	150	℃
Operation temperature range	Tstg	-55 to +150	℃

(*1) Total of 2 elements

●**Electrical characteristics** (Ta=25°C) (Rating of per diode)

Parameter	Symbol	Min.	Max.	Unit	Conditions
Zener voltage	V_z	14.4	17.6	V	I_F=1mA
Reverse current	I_R	-	0.1	μA	V_R=12V
Capacitance between terminals	Ct	-	30	pF	V_R=0V , f=1MHz

∗ Zener voltage to be measured at 40ms after current starting to apply.

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