### INTB18VAC1

FOR ESD PROTECTION SILICON EPITAXIAL TYPE(COMMON ANODE)

#### DESCRIPTION

INTB18VAC1 is super mini package plastic seal type silicon epitaxial type diode.

It guarantees ESD protection of LEVEL4 with IEC61000-4-2. It is suitable for ESD protection of external interface circuit.

#### **FEATURE**

- Possible to high density mounting with small sized package and double diode
- Guaranteed ESD protection;
   IEC61000-4-2(air) ±15kV
   IEC61000-4-2(contact) ±8kV
- Reverse Stand-off voltage 14V

#### APPLICATION

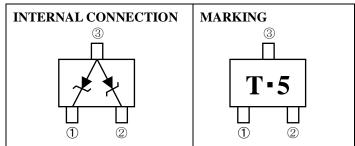
ESD protection for external interface circuit

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#### MAXIMUM RATINGS(Ta=25°C)

Parameter	Symbol	Ratings	Unit	
Total power dissipation	$P_{T}$	300*	mW	
Junction temperature	$T_{j}$	+150	$^{\circ}\!\mathbb{C}$	
Storage temperature	$T_{\text{stg}}$	-55 <b>~</b> +150	$^{\circ}$ C	

<sup>\*</sup> Mounted on glass epoxy board (19mm  $\times$  9mm  $\times$  1mm).



#### ELECTRICAL CHARACTERISTICS(Ta=25°C)

Parameter	Symbol	Test conditions	Limits			T.T:4
			Min	Тур	Max	Unit
Breakdown voltage	$V_{BR}$	I <sub>R</sub> =5mA	17.1	18.0	18.9	V
Reverse current	$I_R$	V <sub>R</sub> =14V	_	_	1.0	μΑ
Pin capacitance	$\mathbf{C}_{\mathrm{T}}$	V <sub>R</sub> =0V	_	24	_	pF

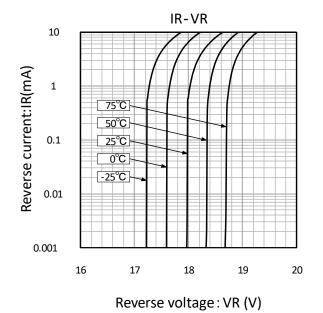
#### **GUARANTEED ESD PROTECTION**

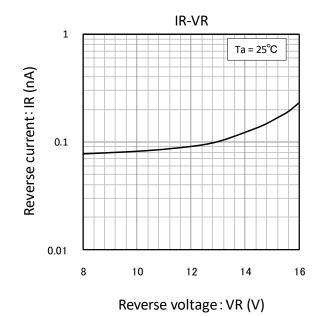
Test condition	ESD protection	Unit	
IEC61000-4-2(Air discharge)	±15	kV	
IEC61000-4-2(Contact discharge)	±8	kV	

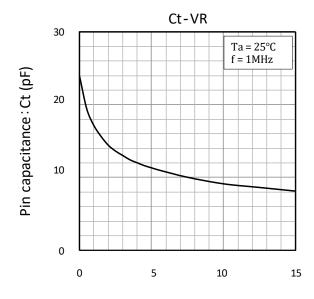
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#### TYPICAL CHARACTERISTICS







#### Keep safety first in your circuit designs!

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