

INTB18VAC1-T150FOR ESD PROTECTION
SILICON EPITAXIAL TYPE(COMMON ANODE)

AEC-Q101 COMPLIANCE

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

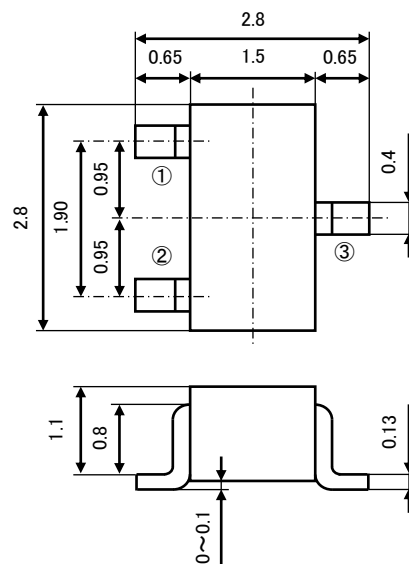
- Possible to high density mounting with small sized package and double diode
- Guaranteed ESD protection;
IEC61000-4-2(air) $\pm 15\text{kV}$
IEC61000-4-2(contact) $\pm 8\text{kV}$
- Reverse Stand-off voltage 14V

APPLICATION

ESD protection for external interface circuit

OUTLINE DRAWING

UNIT : mm



JEITA : SC-59

JEDEC : —

① : CATHODE1

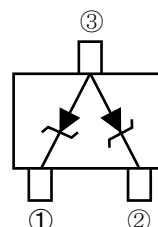
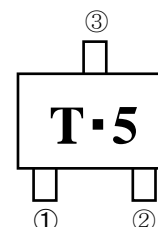
② : CATHODE2

③ : ANODE (COMMON)

MAXIMUM RATINGS(Ta=25°C)

Parameter	Symbol	Ratings	Unit
Total power dissipation	P_T	300*	mW
Junction temperature	T_j	+150	°C
Storage temperature	T_{stg}	-55 ~ +150	°C

* Mounted on glass epoxy board (19mm×9mm×1mm).

INTERNAL CONNECTION**MARKING****ELECTRICAL CHARACTERISTICS(Ta=25°C)**

Parameter	Symbol	Test conditions	Limits			Unit
			Min	Typ	Max	
Breakdown voltage	V_{BR}	$I_R=5\text{mA}$	17.1	18.0	18.9	V
Reverse current	I_R	$V_R=14\text{V}$	—	—	1.0	μA
Pin capacitance	C_T	$V_R=0\text{V}$	—	24	—	pF

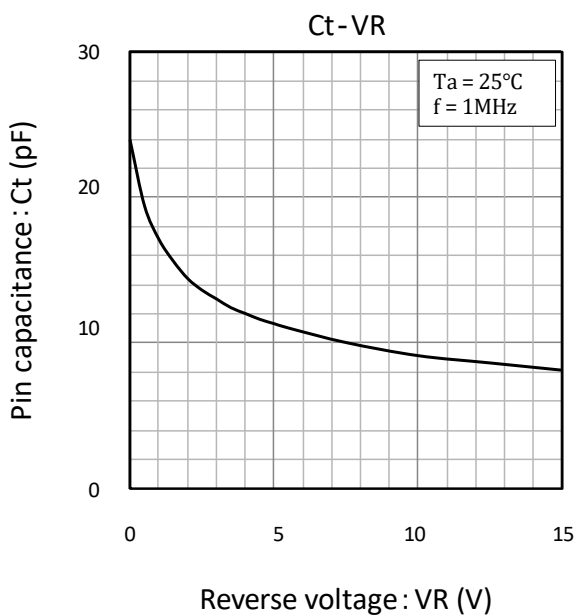
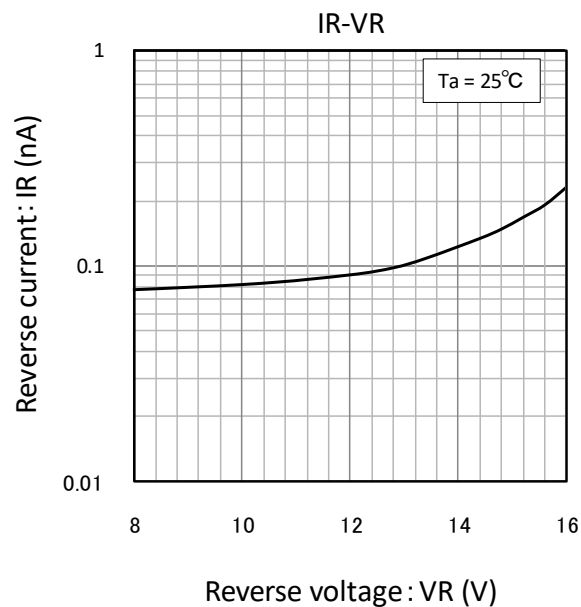
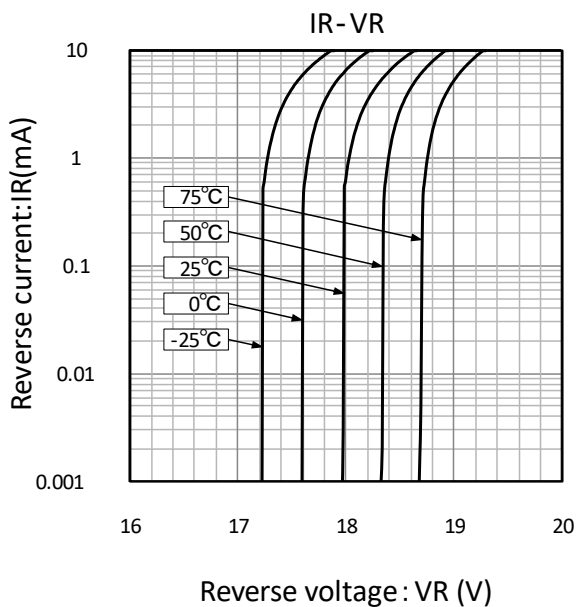
GUARANTEED ESD PROTECTION

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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