

**INT05V3AM1**FOR ESD PROTECTION  
SILICON EPITAXIAL TYPE(COMMON ANODE)**DESCRIPTION**

INT05V3AM1 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**

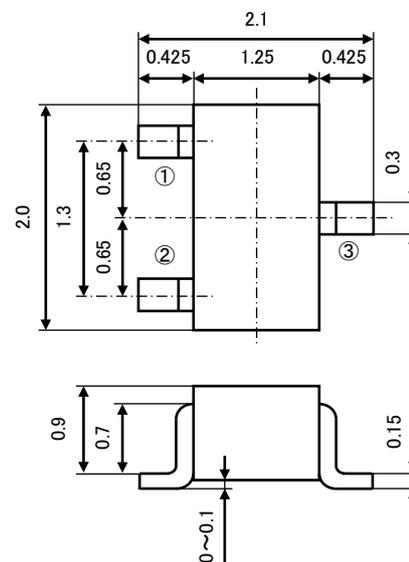
- Possible to high density mounting with small sized package and double diode
- Low capacitance ;  $C_T=15\text{pF(TYP)}$
- Guaranteed ESD protection;  
IEC61000-4-2(air)  $\pm 15\text{kV}$   
IEC61000-4-2(contact)  $\pm 8\text{kV}$
- Reverse Stand-off voltage 3V

**APPLICATION**

ESD protection for external interface circuit

**OUTLINE DRAWING**

UNIT : mm



JEITA : SC-70

JEDEC : -

① : CATHODE1

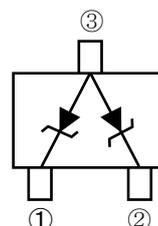
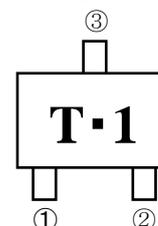
② : CATHODE2

③ : ANODE ( COMMON )

**MAXIMUM RATINGS(Ta=25°C)**

Parameter	Symbol	Ratings	Unit
Total power dissipation	$P_T$	200*	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	$V_{BR}$	$I_R=1\text{mA}$	5.3	5.6	5.9	V
Reverse current	$I_R$	$V_R=3.0\text{V}$	—	—	1.0	$\mu\text{A}$
Pin capacitance	$C_T$	$V_R=0\text{V}$	—	15	—	pF

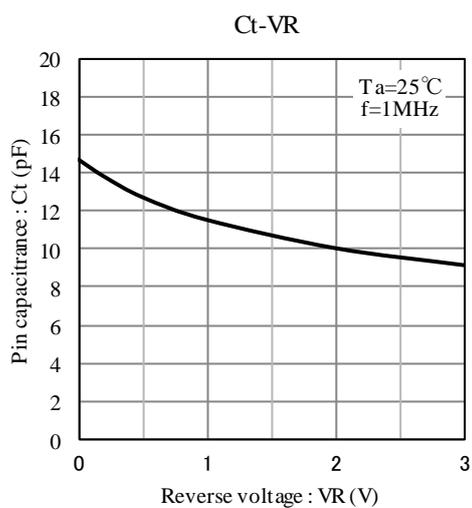
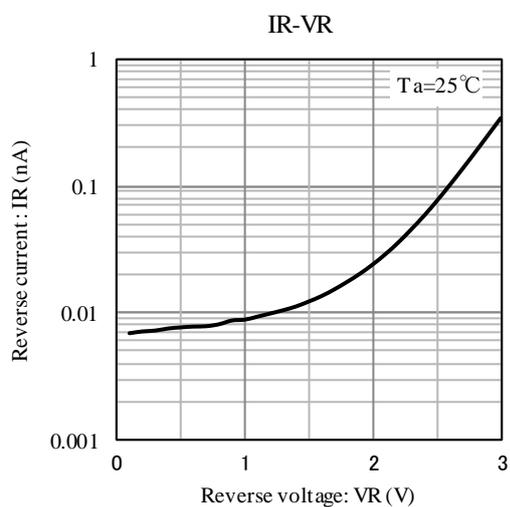
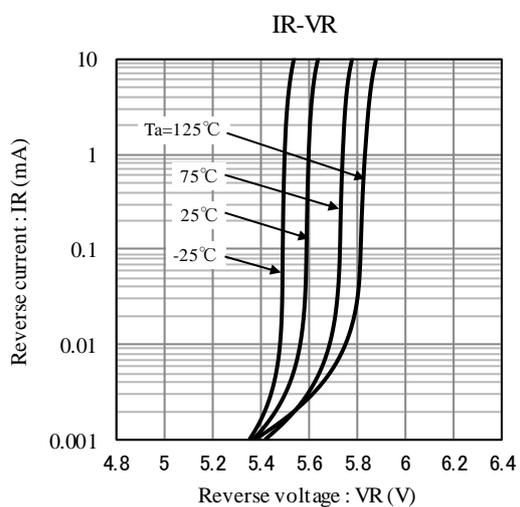
**GUARANTEED ESD PROTECTION**

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

# INT05V3AM1

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SILICON EPITAXIAL TYPE(COMMON ANODE)

## TYPICAL CHARACTERISTICS



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

·ISAHAYA Electronics Corporation puts the maximum effort into making semiconductor products better and more reliable, but there is always the possibility that trouble may occur with them. Trouble with semiconductors may lead to personal injury, fire or property damage. Remember to give due consideration to safety when making your circuit designs, with appropriate measures such as (1) placement of substitutive, auxiliary, (2) use of non-flammable material or (3) prevention against any malfunction or mishap.

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