

INT06V4BS1

FOR ESD PROTECTION
SILICON EPITAXIAL TYPE(COMMON ANODE)

DESCRIPTION

INT06V4BS1 is 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

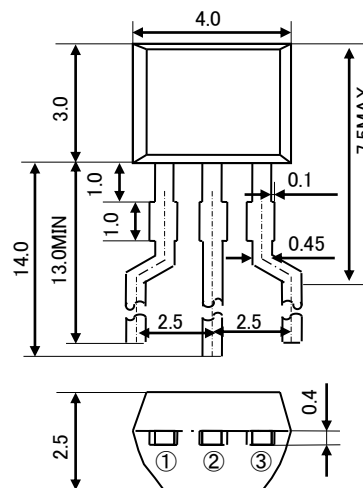
- Possible to high density mounting with small sized package and double diode
- Low capacitance ; $C_T=40\text{pF(TYP)}$
- Guaranteed ESD protection;
IEC61000-4-2(air) $\pm 30\text{kV}$
IEC61000-4-2(contact) $\pm 30\text{kV}$
- Reverse Stand-off voltage 5V

APPLICATION

ESD protection for external interface circuit

OUTLINE DRAWING

Unit:mm



JEITA :-

JEDEC :-

① : CATHODE1

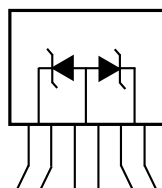
② : ANODE (COMMON)

③ : CATHODE2

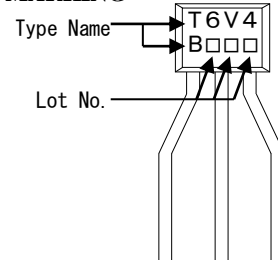
MAXIMUM RATINGS(Ta=25°C)

Parameter	Symbol	Ratings	Unit
Total power dissipation	P_T	600	mW
Junction temperature	T_j	+150	°C
Storage temperature	T_{stg}	-55 ~ +150	°C

EQUIVALENT CIRCUIT



MARKING



ELECTRICAL CHARACTERISTICS(Ta=25°C)

Parameter	Symbol	Test conditions	Limits			Unit
			Min	Typ	Max	
Breakdown voltage	V_{BR}	$I_R=5\text{mA}$	6.4	6.8	7.2	V
Reverse current	I_R	$V_R=5.0\text{V}$	—	—	1.0	μA
Pin capacitance	C_T	$V_R=0\text{V}$	—	40	—	pF

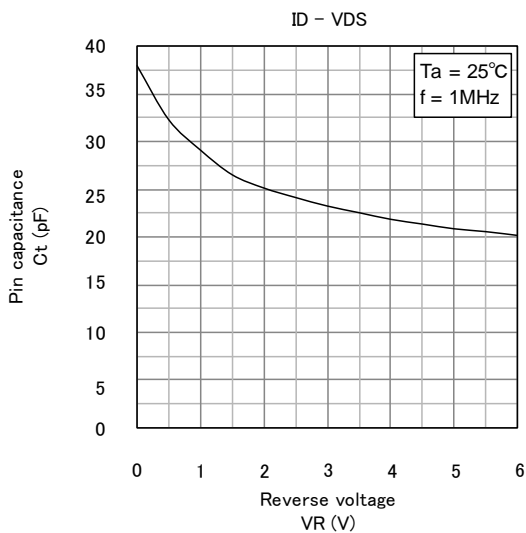
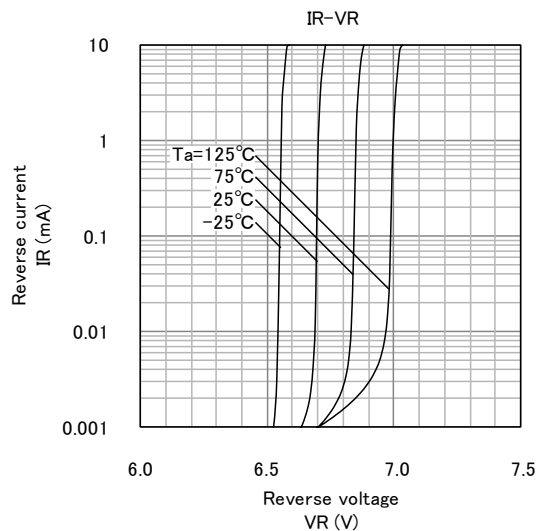
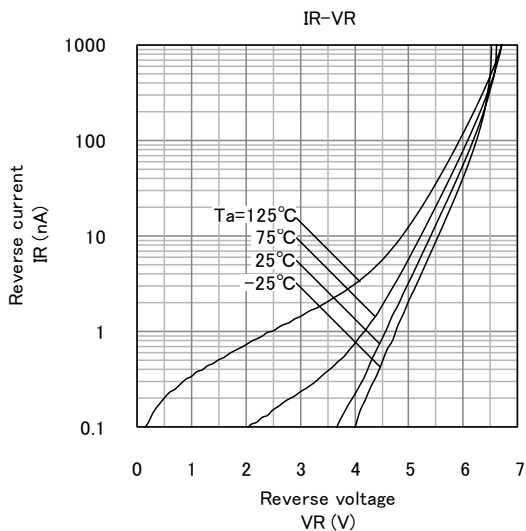
GUARANTEED ESD PROTECTION

Test condition	ESD protection	Unit
IEC61000-4-2(Air discharge)	± 30	kV
IEC61000-4-2(Contact discharge)	± 30	kV

INT06V4BS1

FOR ESD PROTECTION
SILICON EPITAXIAL TYPE(COMMON ANODE)

TYPICAL CHARACTERISTICS



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.

Notes regarding these materials

- These materials are intended as a reference to our customers in the selection of the ISAHAYA products best suited to the customer's application; they don't convey any license under any intellectual property rights, or any other rights, belonging ISAHAYA or third party.
- ISAHAYA Electronics Corporation assumes no responsibility for any damage, or infringement of any third party's rights, originating in the use of any product data, diagrams, charts or circuit application examples contained in these materials.
- All information contained in these materials, including product data, diagrams and charts, represent information on products at the time of publication of these materials, and are subject to change by ISAHAYA Electronics Corporation without notice due to product improvements or other reasons. It is therefore recommended that customers contact ISAHAYA Electronics Corporation or an authorized ISAHAYA products distributor for the latest product information before purchasing product listed herein.
- ISAHAYA Electronics Corporation products are not designed or manufactured for use in a device or system that is used under circumstances in which human life is potentially at stake. Please contact ISAHAYA Electronics Corporation or an authorized ISAHAYA products distributor when considering the use of a product contained herein for any specific purposes, such as apparatus or systems for transportation, vehicular, medical, aerospace, nuclear, or undersea repeater use.
- The prior written approval of ISAHAYA Electronics Corporation is necessary to reprint or reproduce in whole or in part these materials.
- If these products or technologies are subject to the Japanese export control restrictions, they must be exported under a license from the Japanese government and cannot be imported into a country other than the approved destination. Any diversion or re-export contrary to the export control laws and regulations of Japan and/or the country of destination is prohibited.
- Please contact ISAHAYA Electronics Corporation or authorized ISAHAYA products distributor for further details on these materials or the products contained therein.