

# SANYO Semiconductors DATA SHEET

# DB473S6 — Silicon Diffused Junction Type Diode ESD Protection Diode

#### **Features**

- Contact discharge 13kV guarantee (IEC61000-4-2).
- · 6-pin package containing 4 devices.
- · Low capacitance. Best suited for touch panel protection.
- · Halogen free compliance.

### **Specifications**

#### Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

#### Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Ullit
Reverse Voltage	VR	I <sub>R</sub> =1mA	6.0		7.7	V
Reverse Current	IR	V <sub>R</sub> =5V			1	μА
Interminal Capacitance	С	V <sub>R</sub> =0V, f=1MHz		10		pF
ESD Discharge	V <sub>ESD</sub>	C=150pF, R=330Ω, Contact discharge (IEC61000-4-2)	13			kV

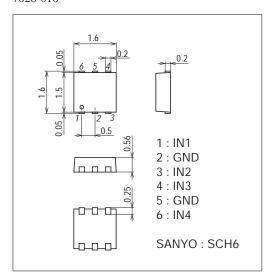
Note) Electrical characteristics are for one diode.

Marking: 4B

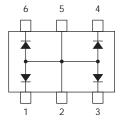
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# **Package Dimensions**

unit : mm (typ) 7028-010

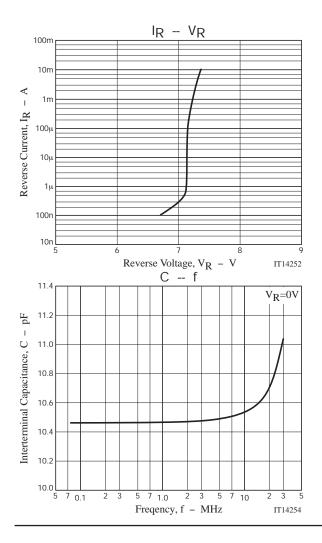


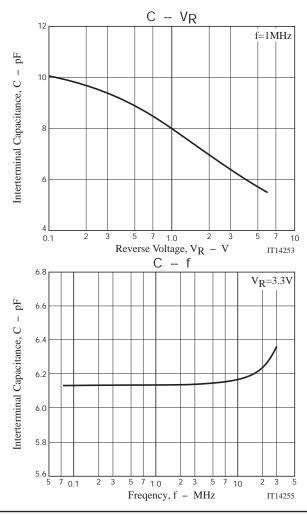
#### **Electrical Connection**



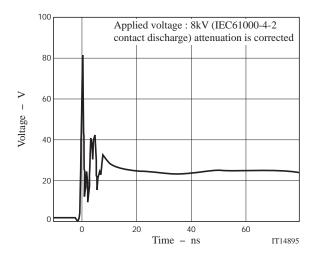
1 : IN1 2 : GND 3 : IN2 4 : IN3 5 : GND 6 : IN4

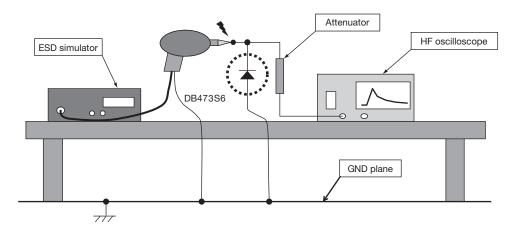
Top view





# **ESD Suppressing Voltage Waveform (for reference)**





Evaluation method (IEC61000-4-2 contact discharge)

IT14772

Note: In the above circuit, the oscilloscope may be destroyed when 8kV is applied without protection device. The ESD suppressing voltage waveform shown above is taken with one unit diode.

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