

TOSHIBA Diodes for Protecting against ESD

## DF2B6.8E

Product for Use Only as Protection against Electrostatic Discharge (ESD)

\*This product is for protection against electrostatic discharge (ESD) only and is not intended for any other usage, including without limitation, the constant voltage diode application.

### Absolute Maximum Ratings (Ta = 25°C)

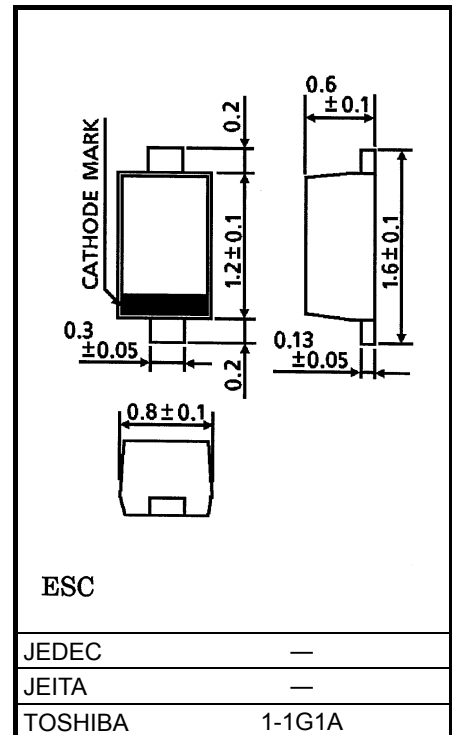
Characteristic	Symbol	Rating	Unit
Power dissipation	P	150*	mW
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature range	T <sub>stg</sub>	-55 to 150	°C

\*: Mounted on a glass epoxy circuit board of 20 mm × 20 mm, pad dimension of 4 mm × 4 mm.

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/ "Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

Unit : mm



Weight: 1.4 mg (typ.)

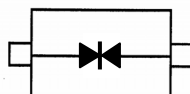
### Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Condition	Min	Typ.	Max	Unit
Reverse stand-off voltage	V <sub>RWM</sub>	—	—	—	5.0	V
Reverse breakdown voltage	V <sub>R</sub>	I <sub>R</sub> = 1 mA	5.8	6.8	7.8	V
Reverse current	I <sub>R</sub>	V <sub>RWM</sub> = 5 V	—	—	0.5	μA
Total capacitance	C <sub>T</sub>	V <sub>R</sub> = 0 V, f = 1 MHz	—	15	—	pF

### Marking



### Equivalent Circuit (Top View)

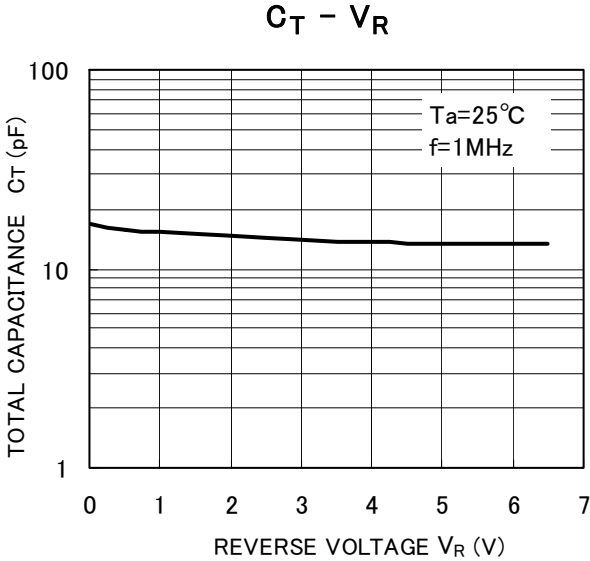
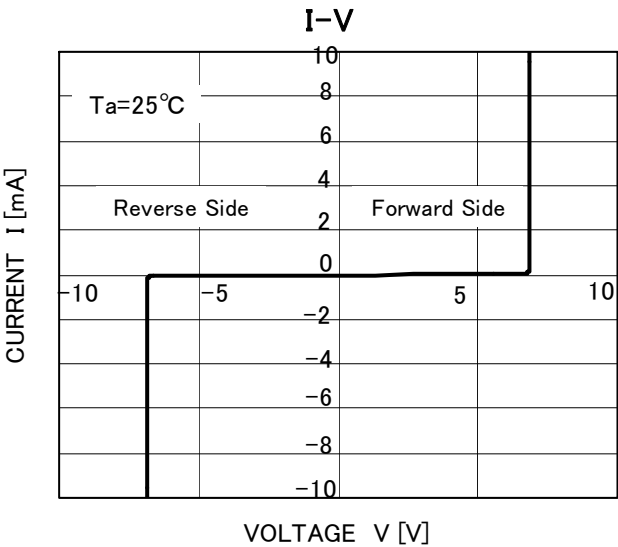


Start of commercial production  
2010-02

**Guaranteed Level of ESD Immunity**

Test Condition	ESD Immunity Level
IEC61000-4-2 (Contact discharge)	±8 kV

Criterion: No damage to device elements



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# Mouser Electronics

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- Поставка более 17-ти миллионов наименований электронных компонентов;
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#### Как с нами связаться

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