

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.

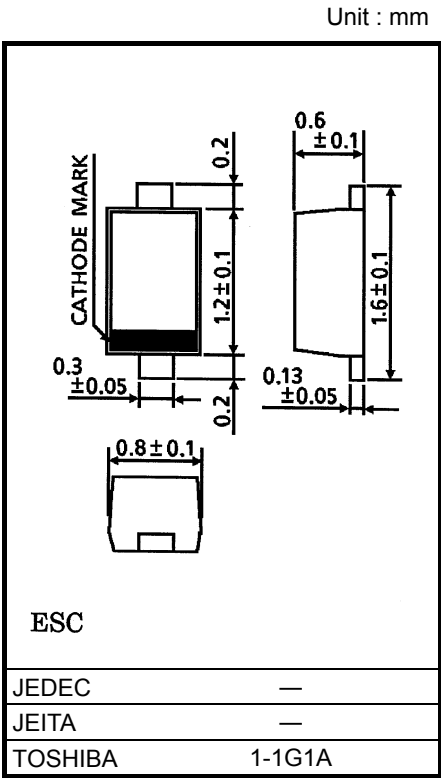
Abusolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	P	150*	mW
Junction temperature	Tj	150	°C
Storage temperature range	Tstg	-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).



Weight: 1.4 mg (typ.)

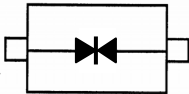
Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Condition	Min	Typ.	Max	Unit
Reverse stand-off voltage	VRWM	—	—	—	5.0	V
Reverse breakdown voltage	VR	IR = 1 mA	5.8	6.8	7.8	V
Reverse current	IR	VRWM = 5 V	—	—	0.5	μA
Total capacitance	CT	VR = 0 V, f = 1 MHz	—	15	—	pF

Marking



Equivalent Circuit (Top View)

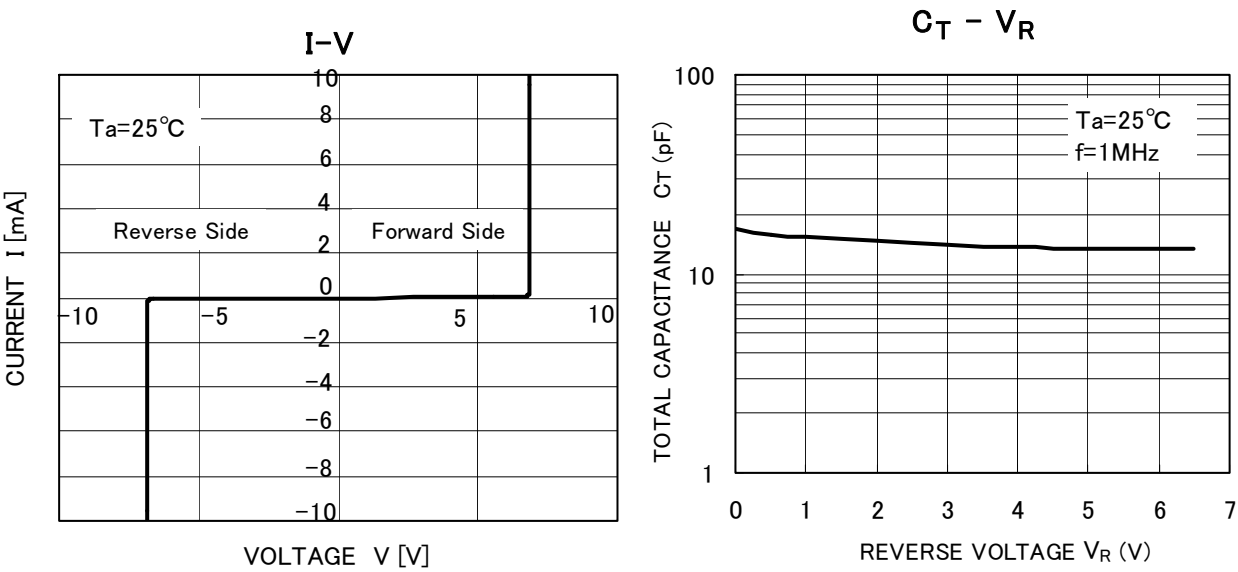


Start of commercial production
2010-02

Guaranteed Level of ESD Immunity

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

Criterion: No damage to device elements



RESTRICTIONS ON PRODUCT USE

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