Unit: mm

TOSHIBA Diodes for Protecting against ESD

DF5A5.6CJE

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

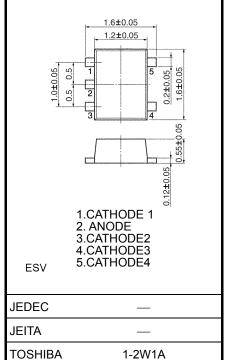
- * This product is for protection against electrostatic discharge (ESD) only and is not intended for any other usage, including without limitation, the constant voltage diode application.
- The mounting of four devices on an ultra-compact package allows the number of parts and the mounting cost to be reduced.
- Low terminal capacitance: C_T = 29 pF (typ.)

Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	Р	100	mW
Junction temperature	Тј	150	°C
Storage temperature range	T _{stg}	–55 to 150	°C

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.

Weight: 0.0062 g (typ.)

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).

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Condition	Min	Тур.	Max	Unit
Zener voltage	VZ	I _Z = 5 mA	5.3	5.6	6.0	V
Dynamic impedance	ZZ	I _Z = 5 mA	-	-	40	Ω
Reverse current	I _R	V _R = 3.5 V	-	-	1.0	μA
Terminal capacitance (between Cathode and Anode)	CT	V _R = 0 V, f = 1 MHz	_	29	_	pF

Guaranteed Level of ESD Immunity

Test Condition	ESD Immunity Level	
IEC61000-4-2 (Contact discharge)	± 30 kV	

Criterion: No damage to device elements

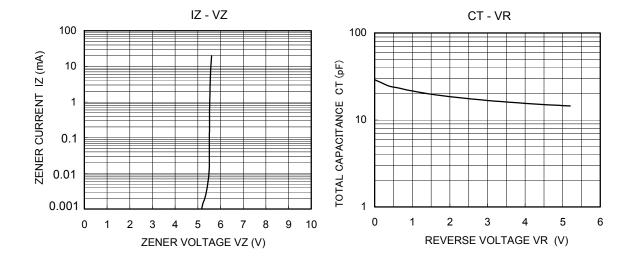


Marking

Equivalent Circuit (Top View)







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