Unit: mm

TOSHIBA Diodes for Protecting against ESD

DF3A3.6FU

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 two devices on an ultra-compact package allows the number of parts and the mounting cost to be reduced.

Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Power dissipation	Р	100	mW
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55 to 125	°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.

2.1±0.1 1.25±0.1 <u>0</u>0 2.0±0.2 1.3±0.1 0~0.1 CATHODE1 1. CATHODE2 2. ANODE 3. USM JEDEC ____ JEITA TOSHIBA 1-2P1A

Weight: 0.006 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)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Zener voltage	VZ	$I_Z = 5 \text{ mA}$	3.4	3.6	3.8	V
Dynamic impedance	ZZ	I _Z = 5 mA	_	_	130	Ω
Reverse current	I _R	V _R = 1 V	_	_	10	μA
Terminal capacitance (between Cathode and Anode)	CT	V _R = 0, f = 1MHz		110		pF

Guaranteed Level of ESD Immunity

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

Criterion: No damage to device elements

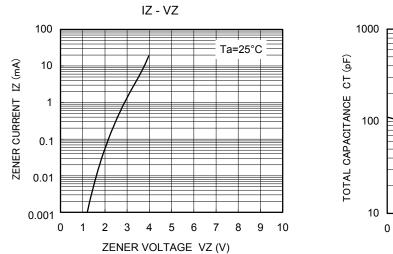


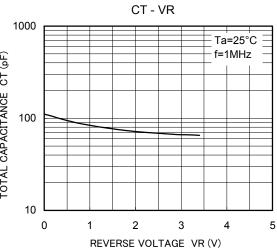
Marking











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