TOSHIBA Diodes For Protecting Against ESD Epitaxial Planar Type

DF3A5.6FV

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.
- Because two devices are mounted on an ultra compact package, it is possible to allow reducing the number of the parts and the mounting cost.

Absolute Maximum Ratings (Ta = 25°C)

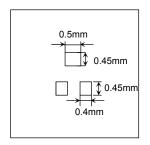
Characteristics	Symbol	Rating	Unit
Power dissipation	P*	150	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55~150	°C

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.

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).

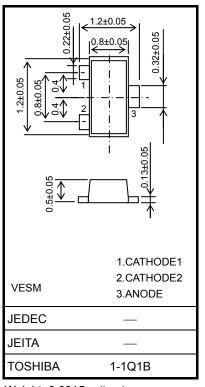
*: Mounted on FR4 board (25.4 mm × 25.4 mm × 1.6 mmt)



Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Zener voltage	VZ	$I_Z = 5 \text{ mA}$	5.3	5.6	6.0	V
Dynamic impedance	Z _Z	I _Z = 5 mA	_	_	40	Ω
Reverse current	I _R	V _R = 2.5 V	_	_	1.0	μА
Terminal capacitance (between Cathode and Anode)	C _T	V _R = 0, f = 1MHz	_	65	ı	pF

Unit: mm



Weight: 0.0015 g (typ.)

Guaranteed Level of ESD Immunity

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

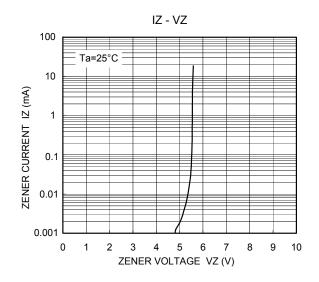
Judgment contents : No element destruction

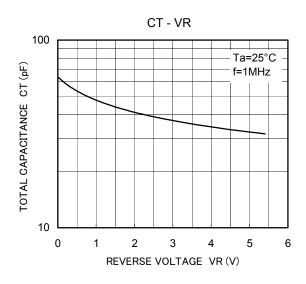
Marking

Equivalent Circuit (top view)









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