TOSHIBA Diodes for Protecting against ESD

DF5A3.6FU

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

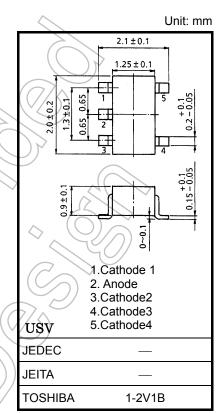
- * This product is for protection against electrostatic discharge (ESD) only and is not intended for any other usage, including without limitation, the constant voltage diode application.
- The mounting of four devices on an ultra-compact package allows the number of parts and the mounting cost to be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

Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating
Power dissipation	Р	200 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. Please design the appropriate reliability upon reviewing the

Toshiba Semiconductor Reliability Handbook ("Handling"



Weight: 0.0062g (typ.)

Electrical Characteristics (Ta = 25°C)

estimated failure rate, etc).

Characteristic	Symbol	Test Condition	Min	Тур.	Max	Unit
Zener voltage	VZ	I _Z = 5 mA	3.4	3.6	3.8	V
Dynamic impedance	Zz	I _Z = 5 mA	-	_	130	Ω
Reverse current	IR	V _R = 1 V	-	_	10	μA
Terminal capacitance (between Cathode and Anode)	CT	$V_R = 0 V$, f = 1 MHz	_	110	_	pF

Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and

Guaranteed Level of ESD Immunity

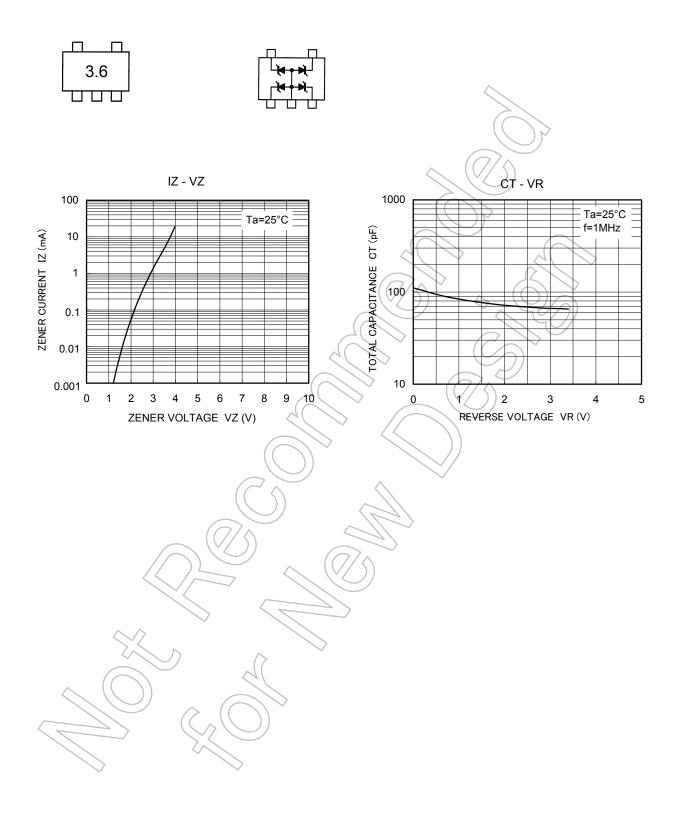
Test Condition	ESD Immunity Level
IEC61000-4-2 (Contact discharge)	\pm 30 kV

Criterion: No damage to device elements

TOSHIBA

Marking

Equivalent Circuit (top view)



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