Unit in mm

TOSHIBA Diodes for Protecting against ESD Epitaxial Planar Type

## **DF2S5.6FS**

#### Diodes for Protecting against ESD

- The mounting of four devices on an ultra-compact package allows the number of parts and the mounting cost to be reduced.
- Zener voltage corresponds to E24 series.

### Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit	
Power dissipation	Р	150*	mW	
Junction temperature	Tj	150	°C	
Storage temperature range	T <sub>stg</sub>	-55~150	°C	

<sup>\*:</sup> Mounted on a glass epoxy circuit board of 20 × 20 mm, pad dimension of 4 × 4 mm.

# 0.0±0.05 A HODE WARK 0.01±0.05 0.1±0.05 0.48<sup>+</sup>0.02

fSC

 JEDEC
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 JEITA
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 TOSHIBA
 1-1L1A

#### Weight: 0.0006 g(Typ.)

#### **Electrical Characteristics (Ta = 25°C)**

Characteristic	Symbol	Test Condition	Min	Тур.	Max	Unit
Zener voltage	$V_Z$	I <sub>Z</sub> = 5mA	5.3	5.6	6.0	V
Dynamic impedance	Z <sub>Z</sub>	I <sub>Z</sub> = 5mA	_	_	30	Ω
Reverse current	I <sub>R</sub>	V <sub>R</sub> = 3.5V	_	_	1	μA
Total capacitance	C <sub>T</sub>	V <sub>R</sub> = 0 V, f = 1 MHz	_	40	_	pF

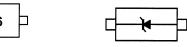
#### **Guaranteed Level of ESD Immunity**

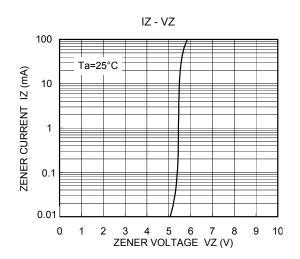
Test Condition	ESD Immunity Level
IEC61000-4-2 (Contact discharge)	±30kV

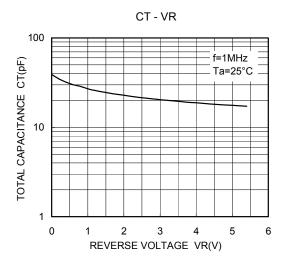
Criterion: No damage to device elements

#### Marking

#### **Equivalent Circuit (Top View)**







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