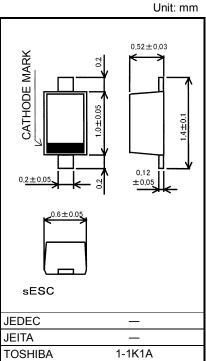
TOSHIBA Diodes for Protecting against ESD Epitaxial Planar Type

**DF2S5.6S** 

Diodes for Protecting against ESD

- Housed in an ultra-compact package, this device enables reduction in the • number of parts and mounting cost.
- Zener voltage corresponds to the 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	

\*: Mounted on a glass-epoxy circuit board of 20 × 20 mm, pad dimensions of 4 × 4 mm.

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

#### Weight: 0.0001 g (typ.)

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

6.

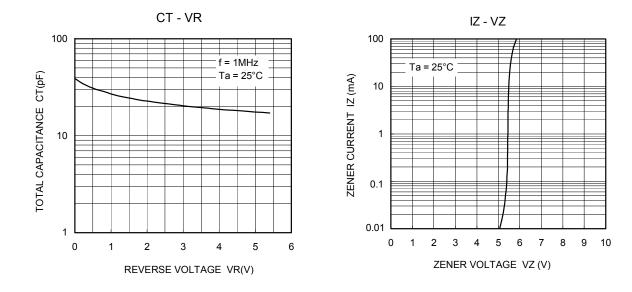


**Equivalent Circuit (Top View)** 





# **TOSHIBA**



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