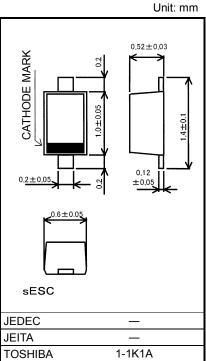
TOSHIBA Diodes for Protecting against ESD Epitaxial Planar Type

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 _{stg}	-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 _Z = 5 mA	5.3	5.6	6.0	V
Dynamic impedance	ZZ	I _Z = 5 mA	_	_	30	Ω
Reverse current	I _R	V _R = 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.

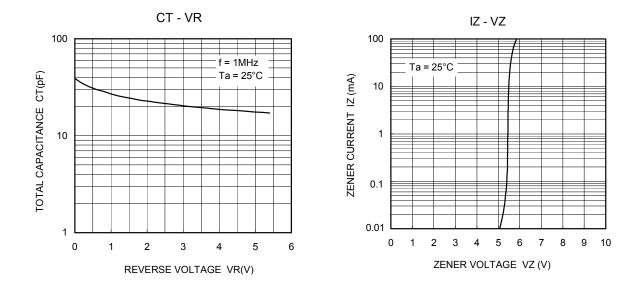


Equivalent Circuit (Top View)





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