

TOSHIBA Diodes for Protecting against ESD Epitaxial Planar Type

DF2S5.6FS

Diodes for Protecting against ESD

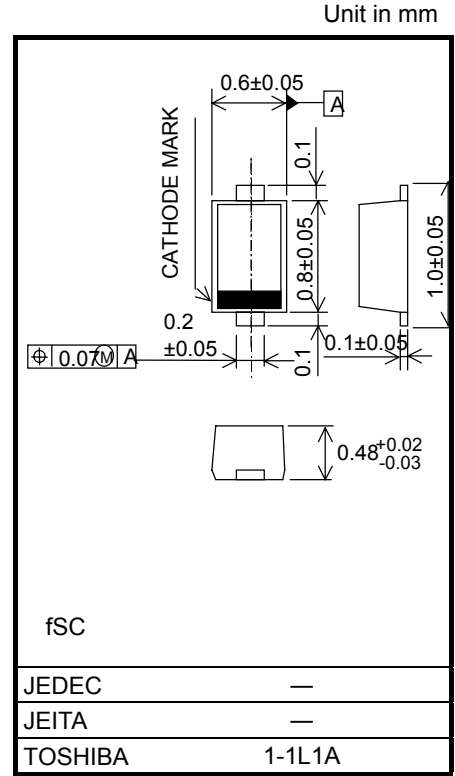
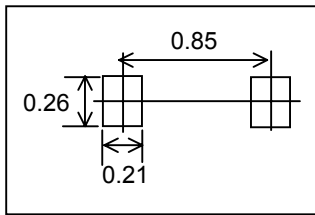
- The mounting of four devices on an ultra-compact package allows the number of parts and the mounting cost to be reduced.
- Zener voltage corresponds to E24 series.
- Lead (Pb) - free

Maximum Ratings (Ta = 25°C)

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

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

Pad Dimension (Reference) Unit : mm



Weight: 0.0006 g (typ.)

Electrical Characteristics (Ta = 25°C)

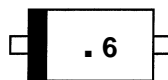
Characteristic	Symbol	Test Condition	Min	Typ.	Max	Unit
Zener voltage	V _Z	I _Z = 5mA	5.3	5.6	6.0	V
Dynamic impedance	Z _Z	I _Z = 5mA	—	—	30	Ω
Reverse current	I _R	V _R = 3.5V	—	—	1	μA
Total capacitance (between Cathode and Anode)	C _T	V _R = 0 V, f = 1 MHz	—	40	—	pF

Guaranteed Level of ESD Immunity

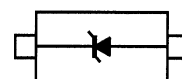
Test Condition	ESD Immunity Level
IEC61000-4-2 (Contact discharge)	±30kV

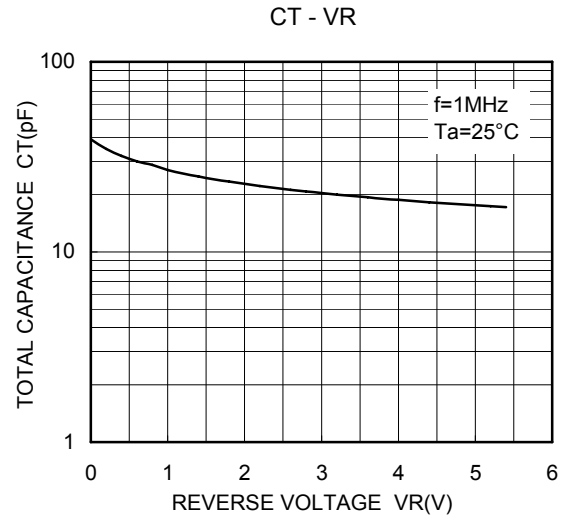
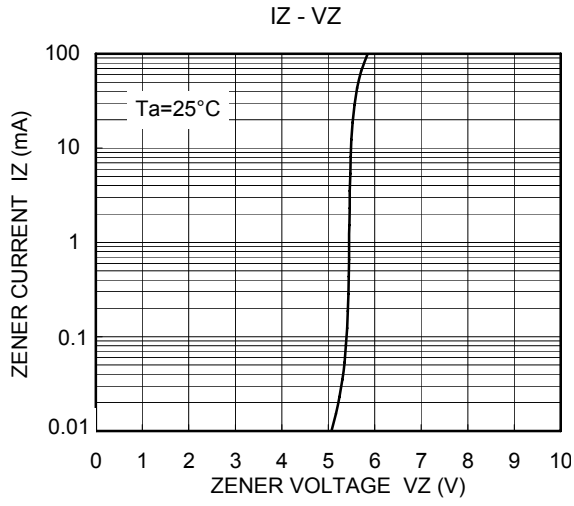
Criterion: No damage to device elements

Marking



Equivalent Circuit (Top View)





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