

TOSHIBA Diodes for Protecting against ESD Epitaxial Planar Type

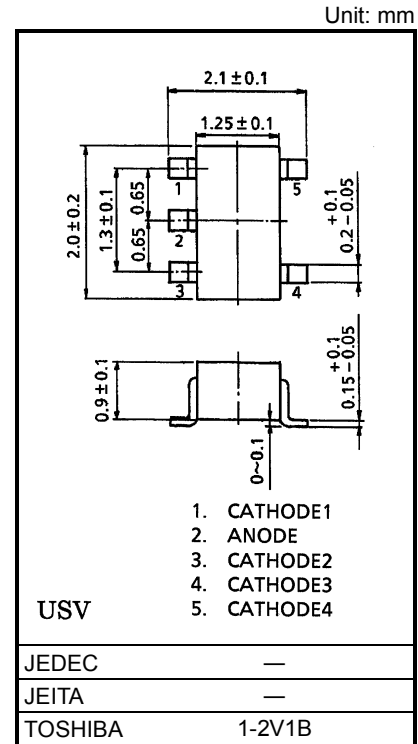
# DF5A6.8FU

Diodes for Protecting against ESD

- The mounting of two devices on an ultra-compact package allows the number of parts and the mounting cost to be reduced.
- The zener voltage corresponds to the E24 Series.

## Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	P	200	mW
Junction temperature	T <sub>j</sub>	125	°C
Storage temperature range	T <sub>stg</sub>	-55~125	°C



## Electrical Characteristics (Ta = 25°C)

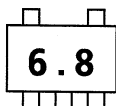
Characteristic	Symbol	Test Condition	Min	Typ.	Max	Unit
Zener voltage	V <sub>Z</sub>	I <sub>Z</sub> = 5 mA	6.4	6.8	7.2	V
Dynamic impedance	Z <sub>Z</sub>	I <sub>Z</sub> = 5 mA	—	10	25	Ω
Knee dynamic impedance	Z <sub>ZK</sub>	I <sub>Z</sub> = 0.5 mA	—	30	—	Ω
Reverse current	I <sub>R</sub>	V <sub>R</sub> = 5 V	—	—	0.5	μA
Terminal capacitance (between Cathode and Anode)	C <sub>T</sub>	V <sub>R</sub> = 0, f = 1 MHz	—	45	—	pF

## Guaranteed Level of ESD Immunity

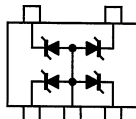
Test Condition	ESD Immunity Level
IEC61000-4-2 (Contact discharge)	±30kV

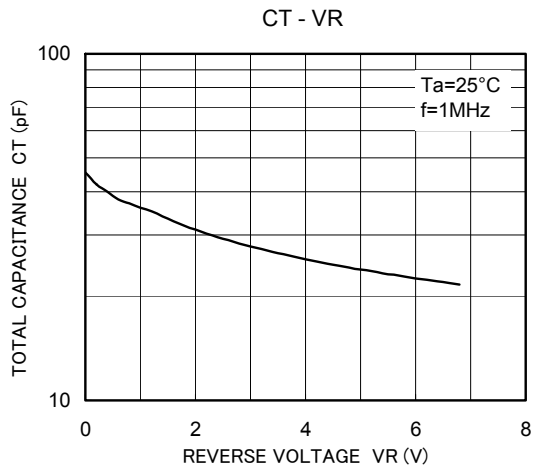
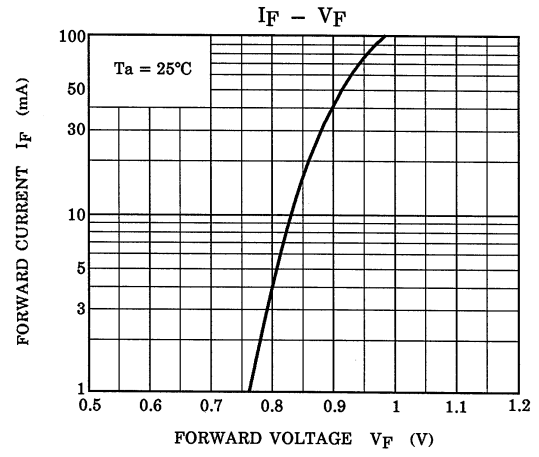
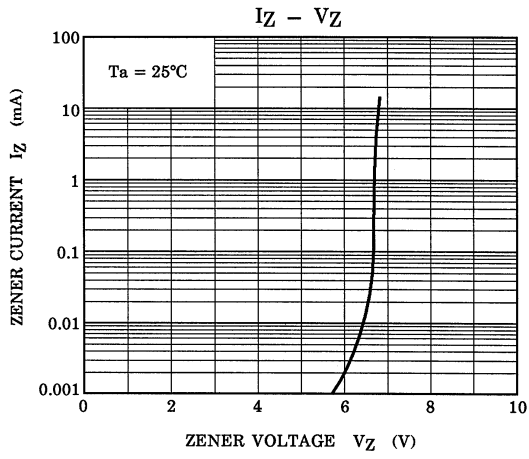
Criterion: No damage to device elements

## Marking



## Equivalent Circuit (Top View)





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