

TOSHIBA Diodes For Protecting Against ESD Epitaxial Planar Type

DF5A6.8LFU

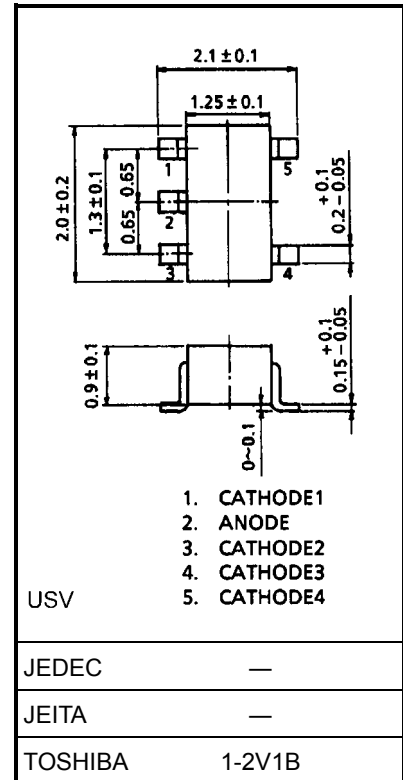
Diodes for Protecting Against ESD

Unit: mm

- Because four devices are mounted on an ultra compact package, it is possible to allow reducing the number of the parts and the mounting cost.
- Zener voltage correspond to E24 Series.
- Low total capacitance: $C_T = 6.0 \text{ pF}$ (typ.)

Maximum Ratings ($T_a = 25^\circ\text{C}$)

Characteristics	Symbol	Rating	Unit
Power dissipation	P	200	mW
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature range	T_{stg}	-55 to 125	$^\circ\text{C}$



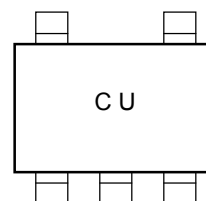
Electrical Characteristics ($T_a = 25^\circ\text{C}$)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Zener voltage	V_Z	$I_Z = 5 \text{ mA}$	6.5	6.8	7.1	V
Dynamic impedance	Z_Z	$I_Z = 5 \text{ mA}$	—	—	50	Ω
Knee dynamic impedance	Z_{ZK}	$I_Z = 0.5 \text{ mA}$	—	—	100	Ω
Reverse current	I_R	$V_R = 5 \text{ V}$	—	—	0.5	μA
Total capacitance	C_T	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$	—	6.0	—	pF

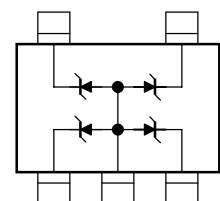
Guaranteed Level of ESD Immunity

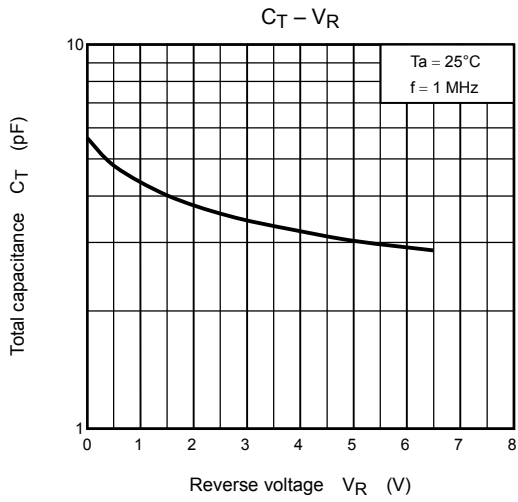
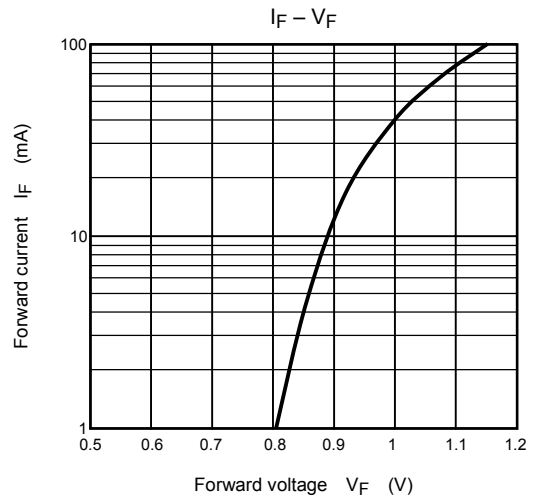
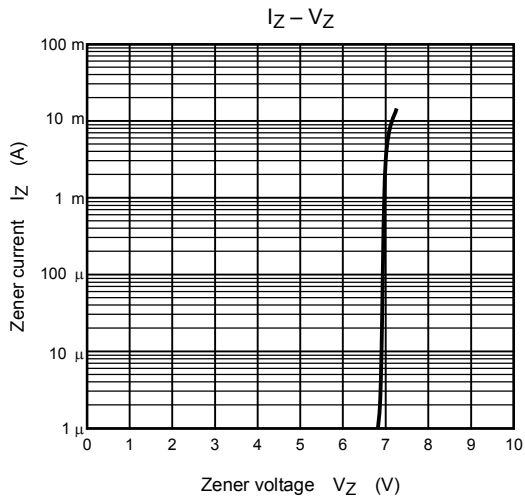
Test Condition	ESD Immunity Level
IEC61000-4-2 (contact discharge)	$\pm 8 \text{ kV}$

Marking



Equivalent Circuit (top view)





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000707EAA

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