

TOSHIBA Diodes For Protecting Against ESD Epitaxial Planar Type

DF5A6.8LF

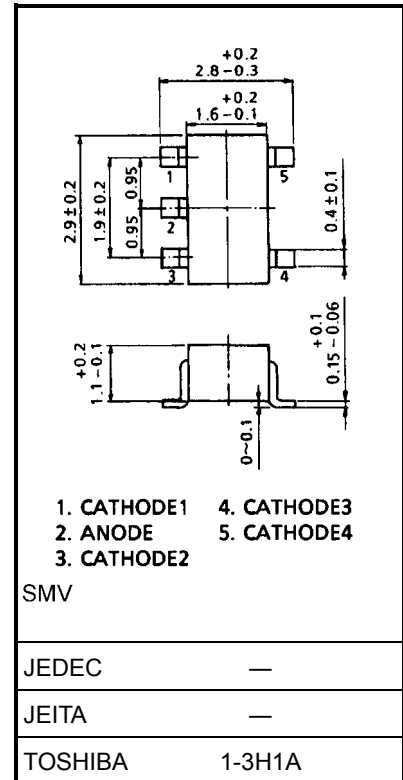
Diodes for Protecting Against ESD

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: $C_T = 6.0$ pF (typ.)

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Power dissipation	P	200	mW
Junction temperature	T _j	125	°C
Storage temperature range	T _{stg}	-55 to 125	°C



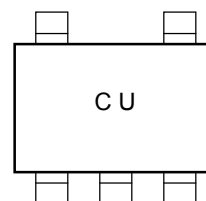
Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Zener voltage	V _Z	I _Z = 5 mA	6.5	6.8	7.1	V
Dynamic impedance	Z _Z	I _Z = 5 mA	—	—	50	Ω
Knee dynamic impedance	Z _{ZK}	I _Z = 0.5 mA	—	—	100	Ω
Reverse current	I _R	V _R = 5 V	—	—	0.5	μA
Total capacitance	C _T	V _R = 0 V, f = 1 MHz	—	6.0	—	pF

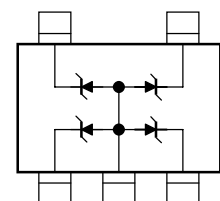
Guaranteed Level of ESD Immunity

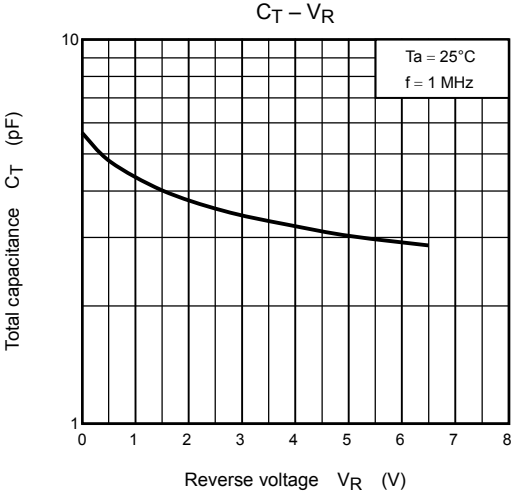
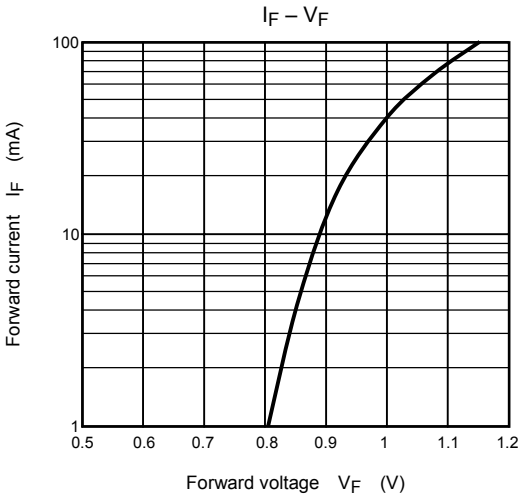
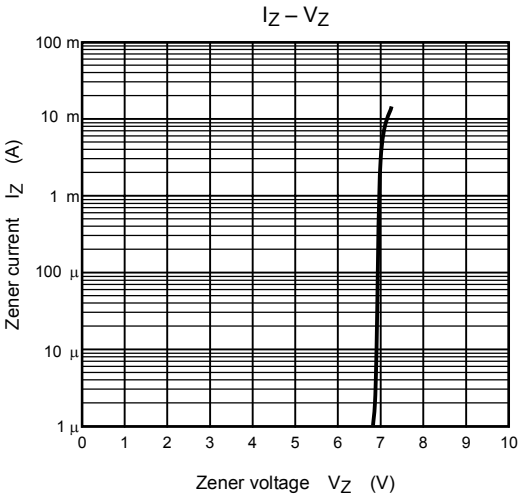
Test Condition	ESD Immunity Level
IEC61000-4-2 (contact discharge)	±8 kV

Marking



Equivalent Circuit (top view)





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