

TOSHIBA Diodes for Protecting Against ESD Epitaxial Planar Type

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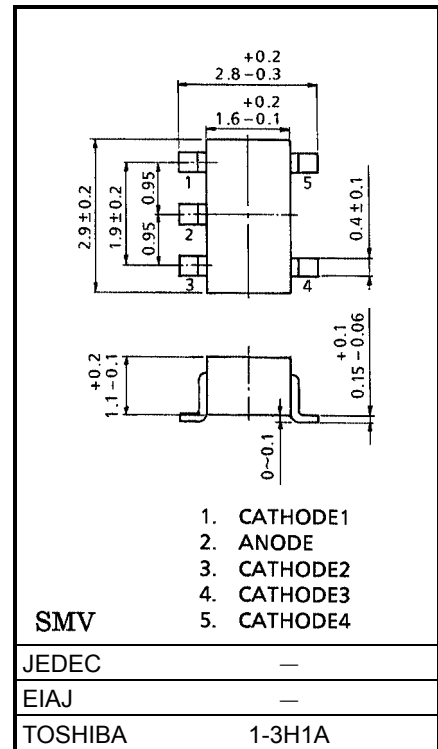
Diodes for Protecting Against ESD

- 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.

Maximum Ratings (Ta = 25°C)

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

Unit in mm



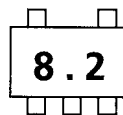
Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Typ.	Max	Unit
Zener voltage	V _Z	—	I _Z = 5mA	7.7	8.2	8.7	V
Dynamic impedance	Z _Z	—	I _Z = 5mA	—	15	—	Ω
Knee dynamic impedance	Z _{ZK}	—	I _Z = 0.5mA	—	20	—	Ω
Reverse current	I _R	—	V _R = 6.5V	—	—	0.5	μA

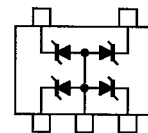
Guaranteed Level of ESD Immunity

Test Condition	ESD Immunity Level
IEC61000-4-2 (contact discharge)	±25kV

Marking



Equivalent Circuit (Top View)



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