

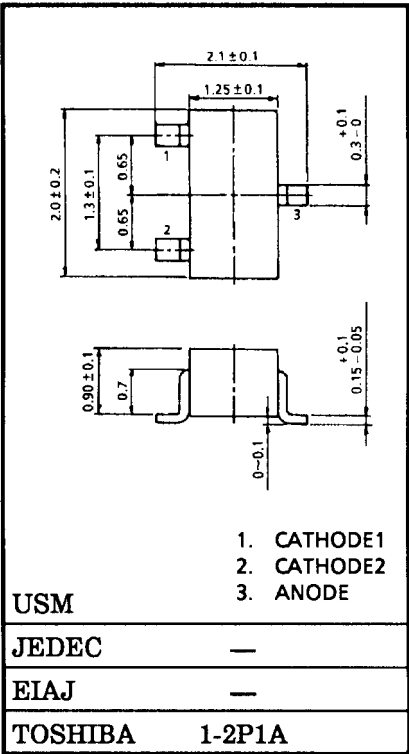
TOSHIBA Diodes For Protecting Against ESD Epitaxial Planar Type

DF3A8.2LFU

Diodes for Protecting Against ESD

- Because two 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: $C_T = 5.0 \text{ pF}$ (typ.)

Unit in mm



Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Power dissipation	P	200	mW
Junction temperature	Tj	125	°C
Storage temperature range	Tstg	-55 to 125	°C

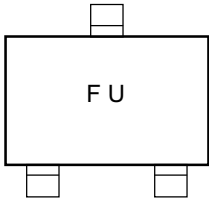
Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Zener voltage	VZ	I _Z = 5 mA	7.8	8.2	8.6	V
Dynamic impedance	Z _Z	I _Z = 5 mA	—	—	60	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	—	5.0	—	pF

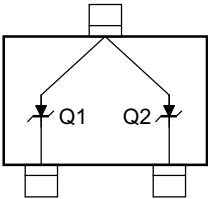
Guaranteed Level of ESD Immunity

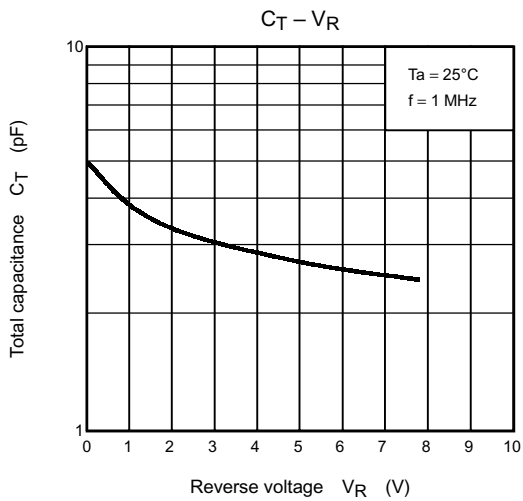
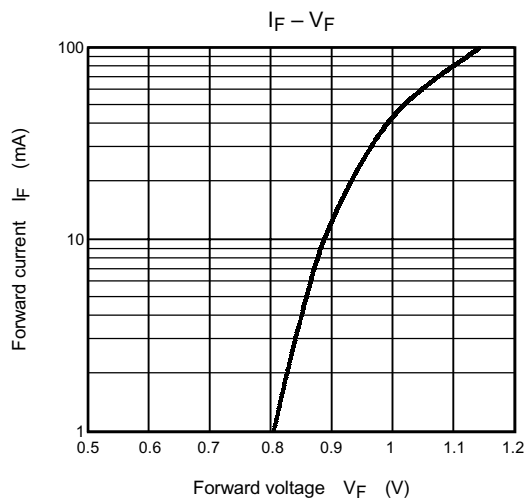
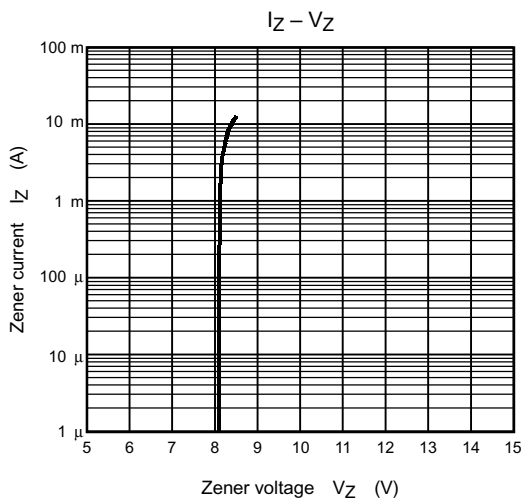
Test Condition	ESD Immunity Level
IEC61000-4-2 (contact discharge)	±6 kV

Marking



Equivalent Circuit (top view)





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