TOSHIBA Diodes For Protecting Against ESD Epitaxial Planar Type

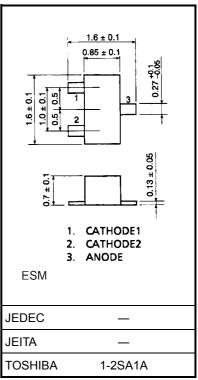
DF3A8.2LFE

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.)

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Power dissipation	Р	100	mW
Junction temperature	Тj	125	°C
Storage temperature range	T _{stg}	-55 to 125	°C

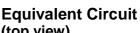


Electrical Characteristics (Ta = 25°C)

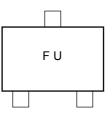
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Zener voltage	VZ	$I_Z = 5 \text{ mA}$	7.8	8.2	8.6	V
Dynamic impedance	ZZ	$I_Z = 5 \text{ mA}$	_	_	60	Ω
Knee dynamic impedance	Z _{ZK}	I _Z = 0.5 mA	_	_	100	Ω
Reverse current	Ι _R	V _R = 5 V	_	_	0.5	μA
Total capacitance	CT	V _R = 0 V, f = 1 MHz	_	5.0		pF

Guaranteed Level of ESD Immunity

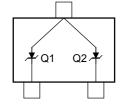
Marking



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

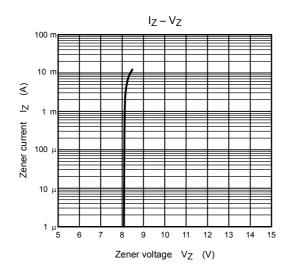


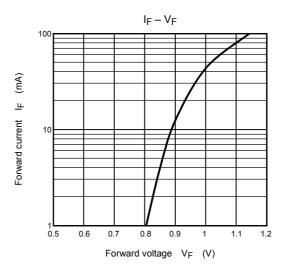
(top view)

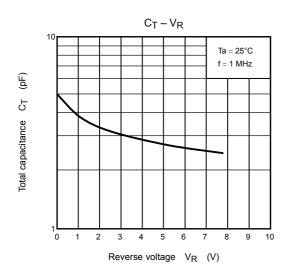


Unit: mm

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