

TOSHIBA Diodes For Protecting Against ESD Epitaxial Planar Type

DF3A6.8LFE

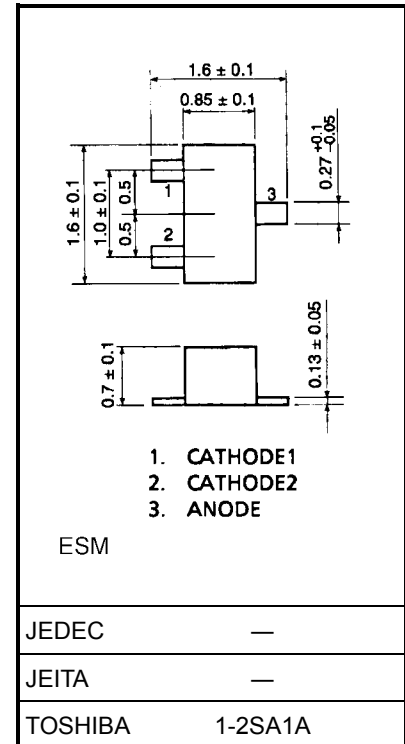
Diodes for Protecting Against ESD

Unit: mm

- 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: $C_T = 6.0$ pF (typ.)

Maximum Ratings (Ta = 25°C)

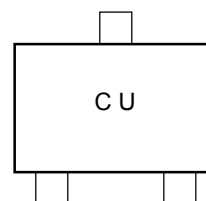
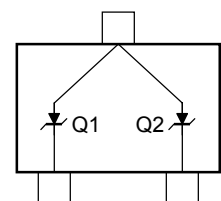
Characteristics	Symbol	Rating	Unit
Power dissipation	P	100	mW
Junction temperature	T_j	125	°C
Storage temperature range	T_{stg}	-55 to 125	°C

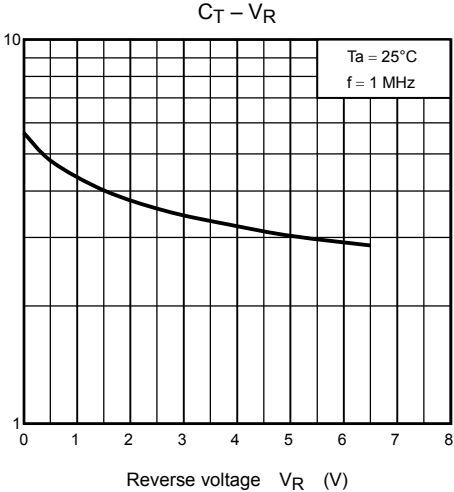
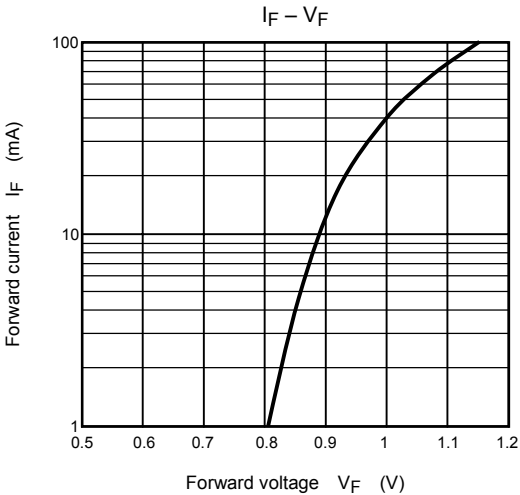
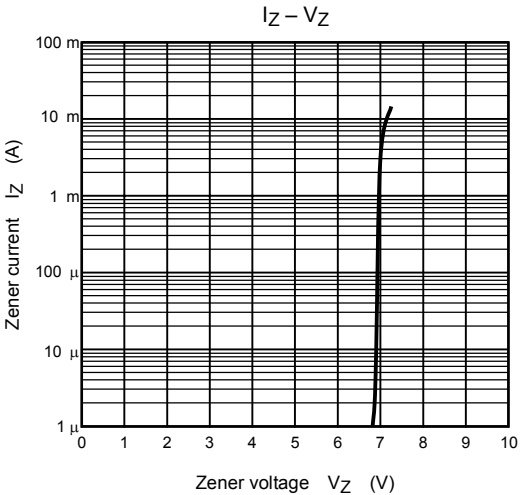
**Electrical Characteristics (Ta = 25°C)**

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	μ A
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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000707EAA

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