

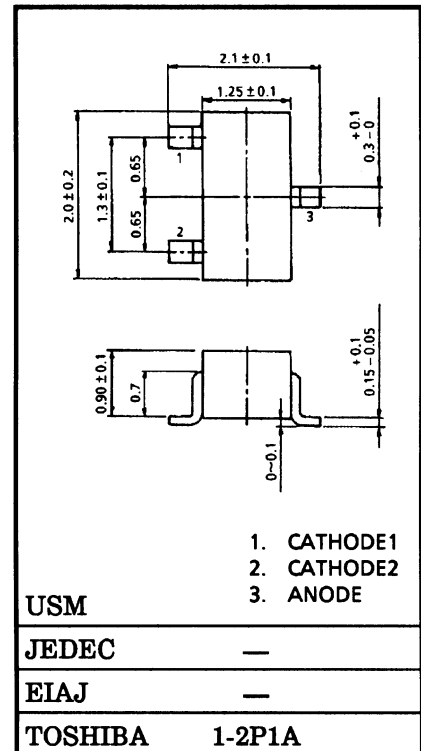
TOSHIBA Diodes For Protecting Against ESD Epitaxial Planar Type

DF3A6.8LFU

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: $C_T = 6.0$ pF (typ.)

Unit in mm



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

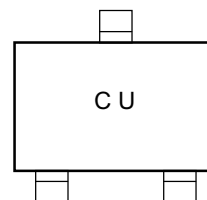
Electrical Characteristics (Ta = 25°C)

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

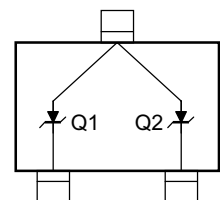
Guaranteed Level of ESD Immunity

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

Marking



Equivalent Circuit (top view)



961001EAA1

- TOSHIBA is continually working to improve the quality and the reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to observe standards of safety, and to avoid situations in which a malfunction or failure of a TOSHIBA product could cause loss of human life, bodily injury or damage to property. In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent products specifications. Also, please keep in mind the precautions and conditions set forth in the TOSHIBA Semiconductor Reliability Handbook.
- The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by TOSHIBA CORPORATION for any infringements of intellectual property or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any intellectual property or other rights of TOSHIBA CORPORATION or others.
- The information contained herein is subject to change without notice.

