

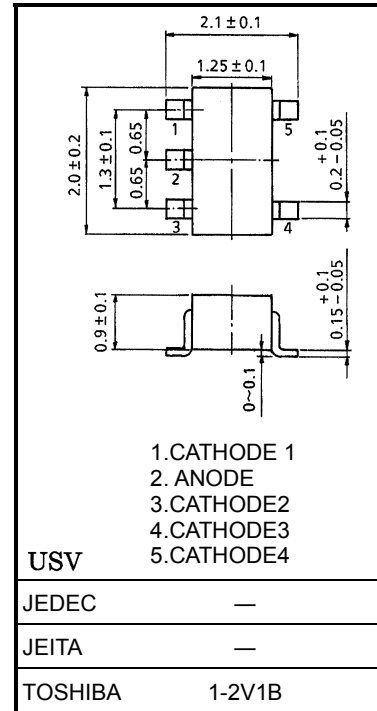
TOSHIBA Diodes for Protecting against ESD Epitaxial Planar Type

## DF5A5.6CFU

Diodes for Protecting against ESD

- The mounting of four devices on an ultra-compact package allows the number of parts and the mounting cost to be reduced.
- The zener voltage corresponds to the E24 Series.
- Low Terminal capacitance (between Cathode and Anode)  
:  $C_T = 29$  pF (typ.)

Unit: mm



### Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	P	200	mW
Junction temperature	$T_j$	150	°C
Storage temperature range	$T_{stg}$	-55~150	°C

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

Weight: 0.0062 g (typ.)

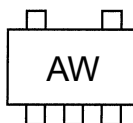
Characteristic	Symbol	Test Condition	Min	Typ.	Max	Unit
Zener voltage	$V_Z$	$I_Z = 5$ mA	5.3	5.6	6.0	V
Dynamic impedance	$Z_Z$	$I_Z = 5$ mA	—	—	40	$\Omega$
Reverse current	$I_R$	$V_R = 3.5$ V	—	—	1.0	$\mu$ A
Terminal capacitance (between Cathode and Anode)	$C_T$	$V_R = 0$ V, $f = 1$ MHz	—	29	—	pF

### Guaranteed Level of ESD Immunity

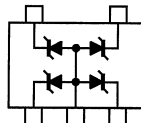
Test Condition	ESD Immunity Level
IEC61000-4-2 (Contact discharge)	$\pm 30$ kV

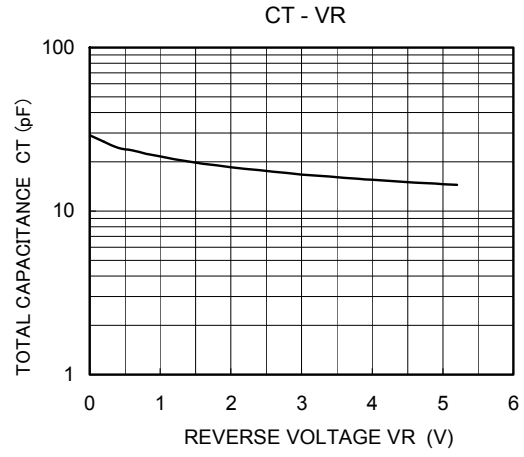
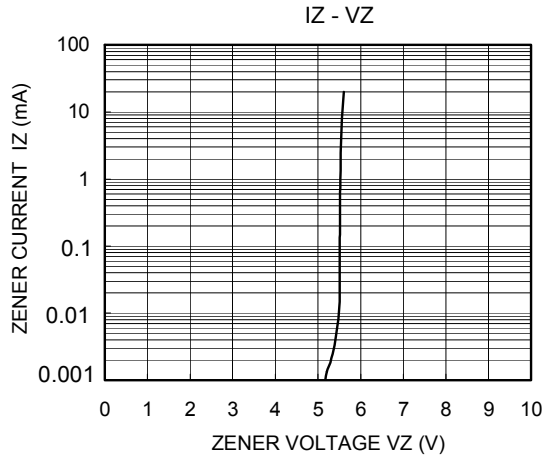
Criterion: No damage to device elements

### Marking



### Equivalent Circuit (Top View)





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