

TOSHIBA Diodes For Protecting Against ESD Epitaxial Planar Type

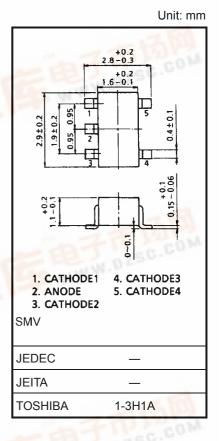
### DF5A8.2LF

#### Diodes for Protecting Against ESD

- Because four 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	200	mW
Junction temperature	Tj	125	°C
Storage temperature range	T <sub>stg</sub>	-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 <sub>ZK</sub>	$I_Z = 0.5 \text{ mA}$	_	_	100	Ω
Reverse current	I <sub>R</sub>	V <sub>R</sub> = 5 V	_	_	0.5	μА
Total capacitance	C <sub>T</sub>	V <sub>R</sub> = 0 V, f = 1 MHz	_	5.0	-	pF

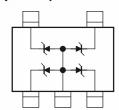
#### **Guaranteed Level of ESD Immunity**

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

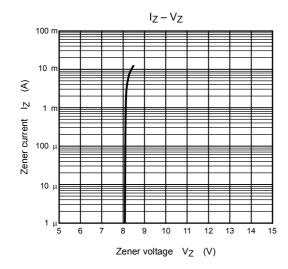
#### Marking

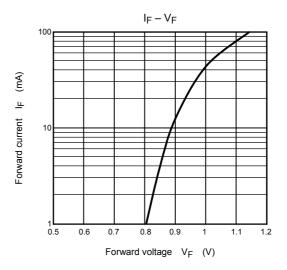


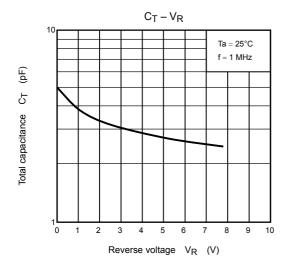
## Equivalent Circuit (top view)











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