TOSHIBA Diodes for Protecting Against ESD Epitaxial Planar Type

DF8A6.8FK

Diodes for Protecting Against ESD

- Because seven 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.

Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	Р	200	m(VV
Junction temperature	Tj	150	Ge)
Storage temperature range	T _{stg}	-55~150	(//c /)

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling")

Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate,

Unit in mm 3.1±0.1 2.3±0.1 0.7±0:1 0~0 1 1. CATHODE1 5, CATHODE5 2. CATHODE2 6. CATHODE6 3. CATHODE3 7. CATHODE7 4. CATHODE4 8. ANODE US8 JEDEC ĴΈΙΤΑ **TOSHIBA**

Weight: 0.0088 g (typ.)

Electrical Characteristics (Ta = 25°C)

	/ 7 / A						
Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Zener voltage	V _Z	/-/	1 <u>z</u> = 5mA	6.4	6.8	7.2	V
Dynamic impedance	ZZ		I _Z = 5mA	_	_	25	Ω
Reverse current	IR	1	√ _R = 5V	_	_	0.5	μΑ
Total capacitance	C _T	1	V _R = 0V, f=1MHz	_	45	_	pF

Guaranteed Level of ESD Immunity

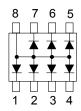
Test Condition	ESD Immunity Level
IEC61000-4-2 (Contact discharge)	± 30kV

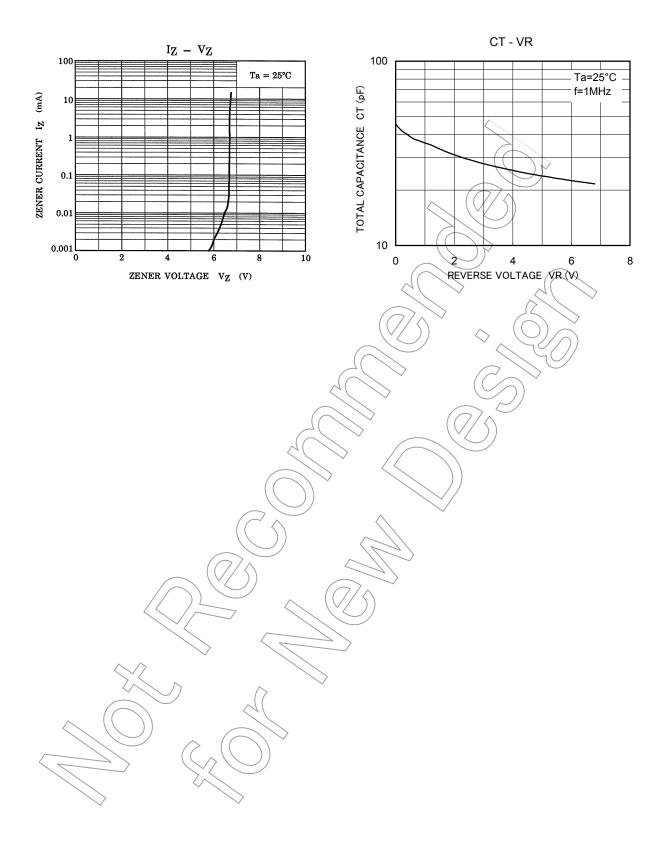
Judgment contents : No element destruction

Marking

Equivalent Circuit (Top View)







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