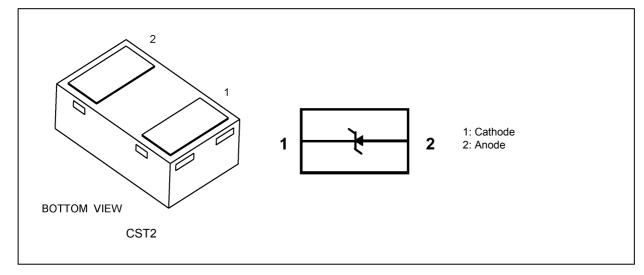
ESD Protection Diodes Silicon Epitaxial Planar

DF2S6.2CT

1. Applications

- ESD Protection
- Note: This product is designed for protection against electrostatic discharge (ESD) and is not intended for any other purpose, including, but not limited to, voltage regulation.

2. Packaging and Internal Circuit



3. Absolute Maximum Ratings (Note) (Unless otherwise specified, $T_a = 25^{\circ}C$)

Characteristics	Symbol	Rating	Unit
Electrostatic discharge voltage (IEC61000-4-2)(Contact)	V _{ESD}	±30	kV
Junction temperature	Tj	150	°C
Storage temperature	T _{stg}	-55 to 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, etc).

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4. Electrical Characteristics (Unless otherwise specified, $T_a = 25^{\circ}C$)

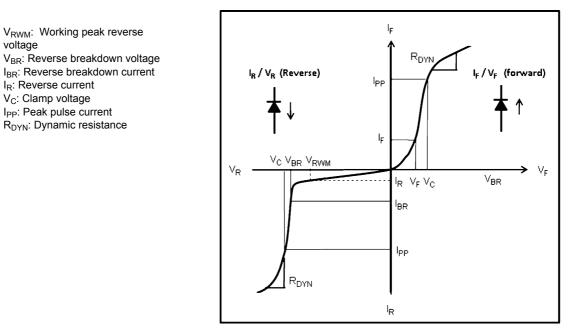


Fig. 4.1 Definitions of Electrical Characteristics

Characteristics	Symbol	Note	Test Condition	Min	Тур.	Max	Unit
Zener voltage	Vz		I _Z = 5 mA	5.8	6.2	6.6	V
Dynamic impedance	ZZ		I _Z = 5 mA	_	—	30	Ω
Reverse current	I _R		V _R = 5 V	_	_	2.5	μA
Total capacitance	Ct		V _R = 0 V, f = 1 MHz		32	_	рF

5. Guaranteed ESD Protection (Note)

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

Note: Criterion: No damage to devices.

6. Marking

Cathode mark

Fig. 6.1 Marking

Marking Code	Part Number
YD	DF2S6.2CT

7. Land Pattern Dimensions (for reference only)

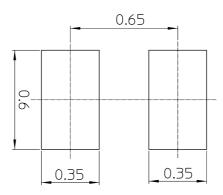
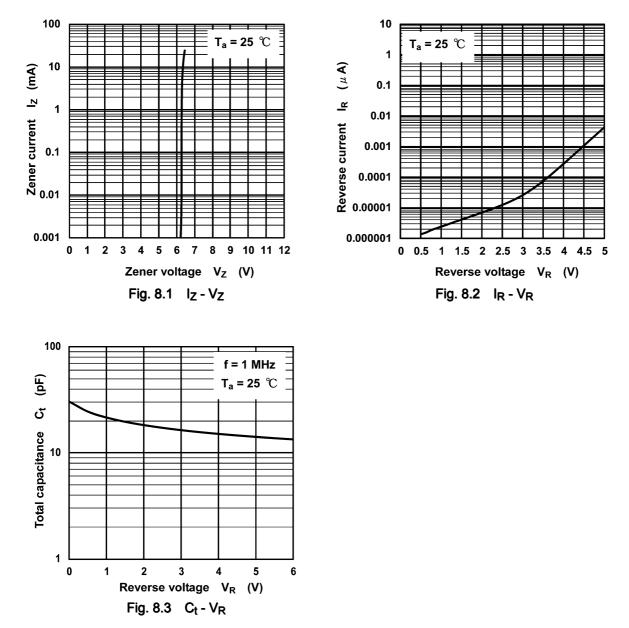


Fig. 7.1 Land Pattern Dimensions (Unit: mm)

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8. Characteristics Curves (Note)



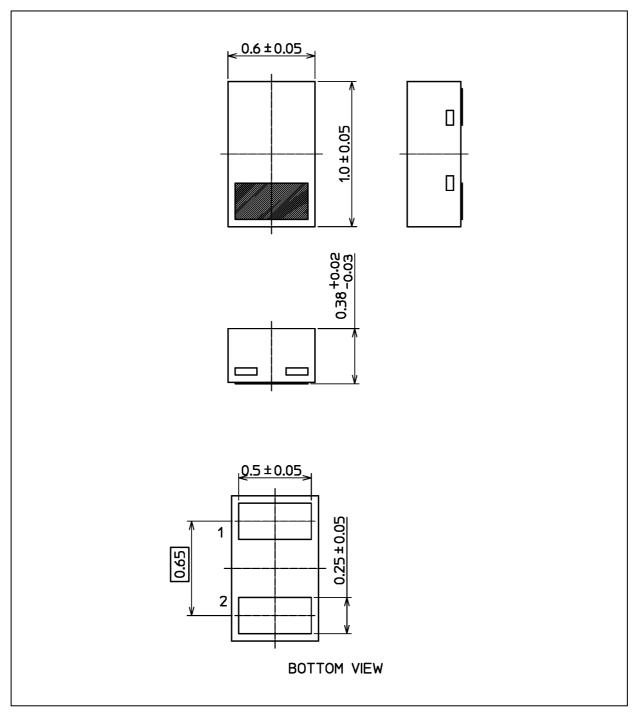
Note: The above characteristics curves are presented for reference only and not guaranteed by production test, unless otherwise noted.



Package Dimensions

DF2S6.2CT

Unit: mm



Weight: 0.7 mg (typ.)

	Package Name(s)
TOSHIBA: 1-1P1S	
Nickname: CST2	

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Toshiba: DF2S6.2CT,L3F



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