

TOSHIBA Diode Silicon Epitaxial Planar Type

015DZ2.7

Constant-Voltage Regulation Applications

- Small package

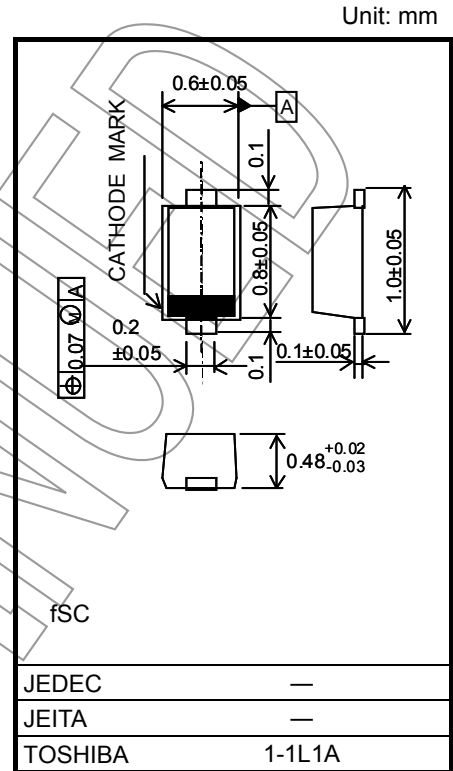
Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	P	150*	mW
Junction temperature	T _j	150	°C
Storage temperature range	T _{stg}	-55 to 150	°C

*: Mounted on a glass epoxy circuit board of 20 mm × 20 mm, pad dimension of 4 mm × 4 mm.

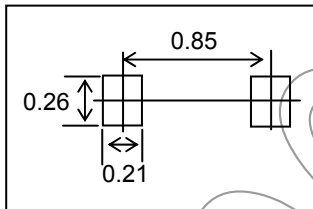
Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.)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



Weight: 0.6 mg (typ.)

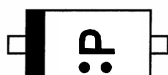
Pad Dimensions (Reference) Unit: mm



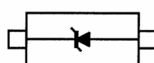
Electrical Characteristics (Ta = 25°C)

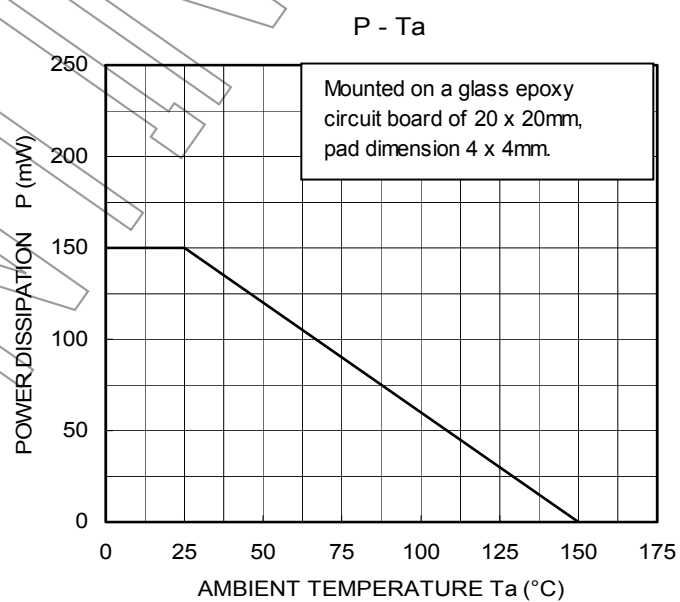
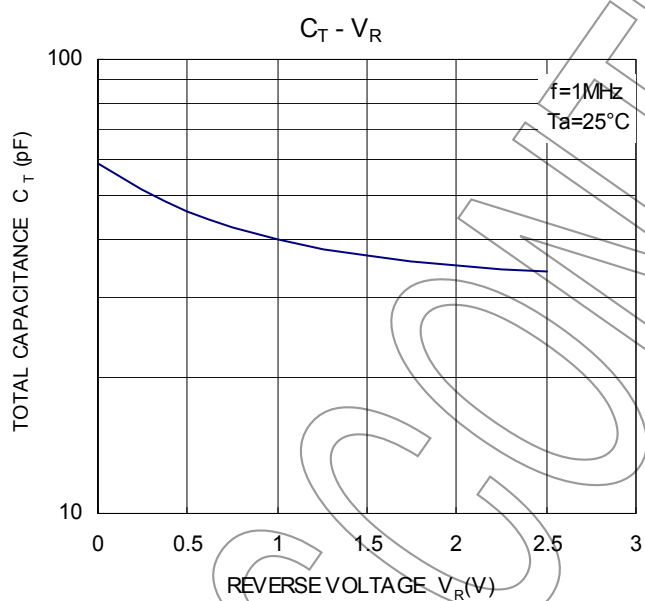
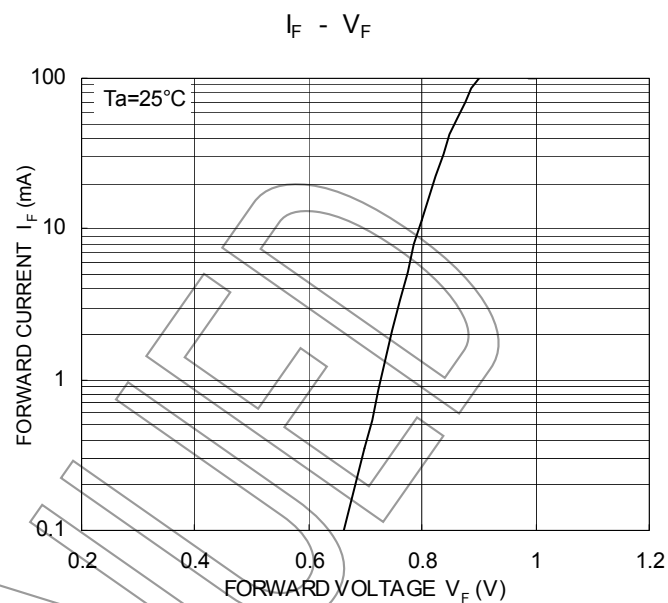
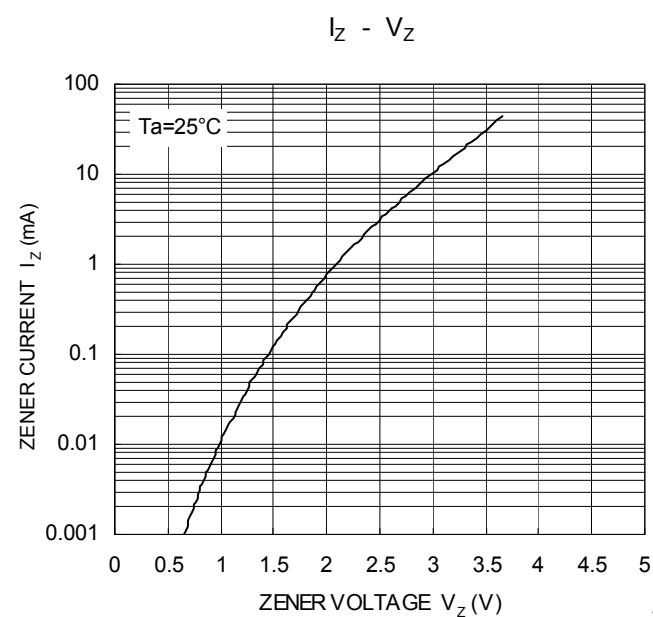
Characteristic	Symbol	Test Condition	Min	Typ.	Max	Unit
Zener voltage	V _Z	I _Z = 5 mA	2.65	—	2.90	V
Reverse current	I _R	V _R = 1 V	—	—	120	μA
Dynamic Impedance	Z _Z	I _Z = 5 mA	—	—	200	Ω
Knee Dynamic Impedance	Z _{ZK}	I _Z = 0.5 mA	—	—	1500	Ω

Marking



Equivalent Circuit (Top View)





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