

015DZ5.6

Constant-Voltage Regulation Applications

- Small package

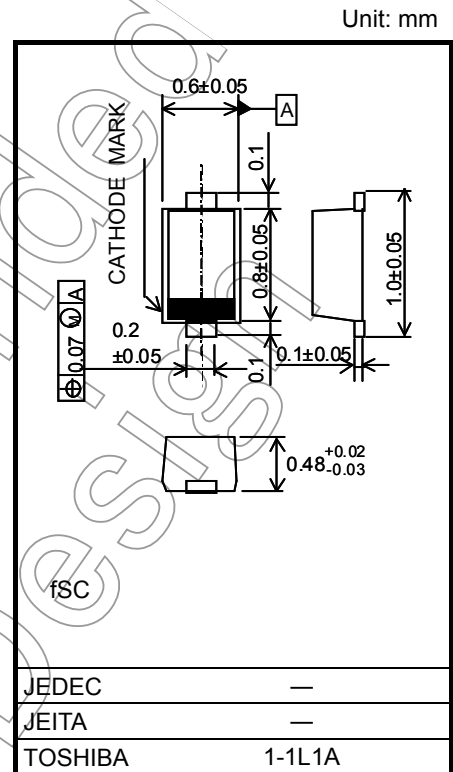
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Characteristic	Symbol	Rating	Unit
Power dissipation	P	150*	mW
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature range	T_{stg}	-55 to 150	$^\circ\text{C}$

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

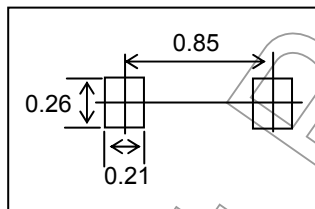
Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.)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

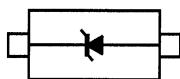
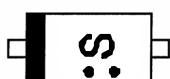
Pad Dimensions (Reference) Unit: mm

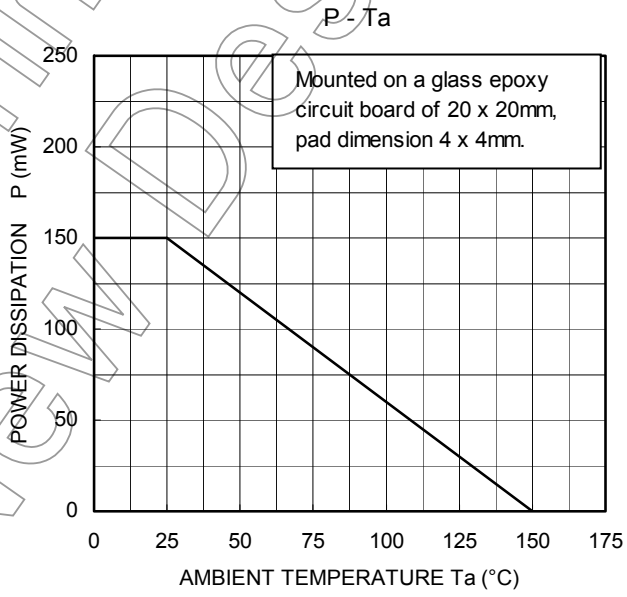
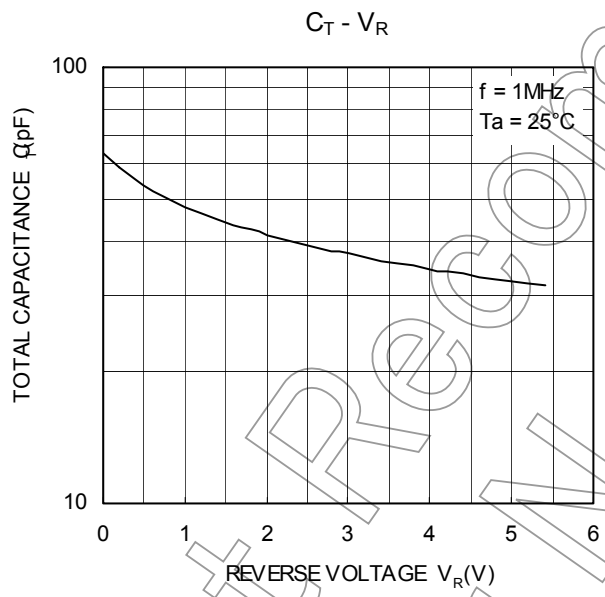
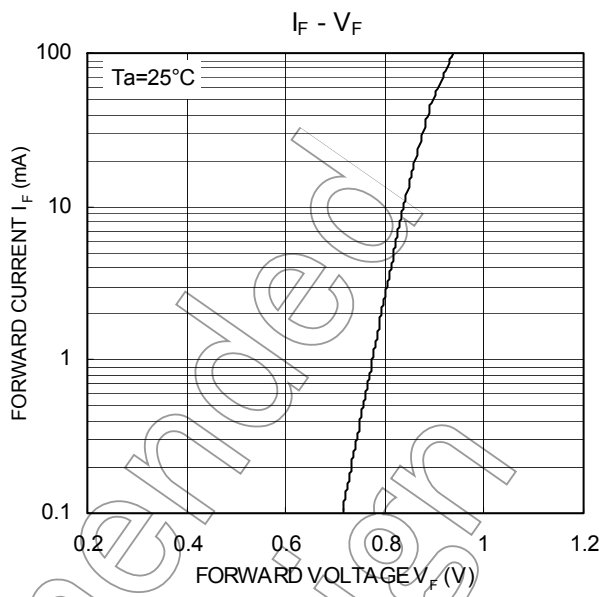
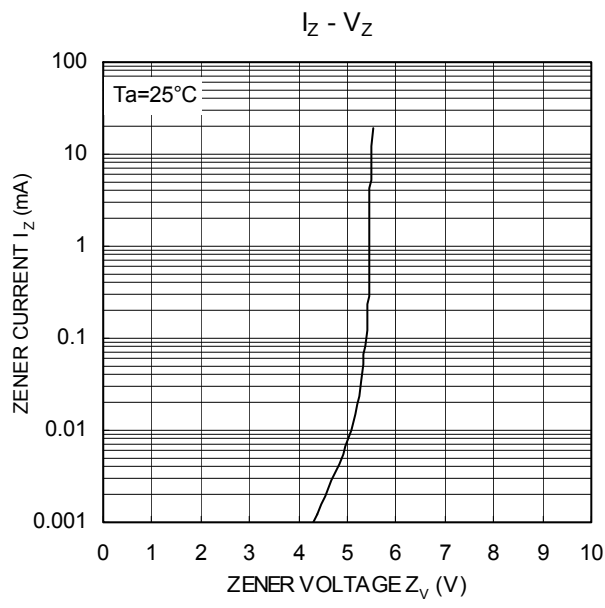
Electrical Characteristics ($T_a = 25^\circ\text{C}$)

Characteristic	Symbol	Test Condition	Min	Typ.	Max	Unit
Zener voltage	V_Z	$I_Z = 5 \text{ mA}$	5.43	—	5.81	V
Reverse current	I_R	$V_R = 2.5 \text{ V}$	—	—	1.0	μA
Dynamic Impedance	Z_Z	$I_Z = 5 \text{ mA}$	—	—	30	Ω
Knee Dynamic Impedance	Z_{ZK}	$I_Z = 0.5 \text{ mA}$	—	—	250	Ω

Marking

Equivalent Circuit (Top View)





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