Unit: mm

 1.6 ± 0.1

 0.85 ± 0.1

ANODE1 ANODE2 CATHODE

TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS385F

High Speed Switching

• Low forward voltage: $V_F = 0.23V$ (typ.) @ $I_F = 5mA$

• Ultra-small package

Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse Voltage	V_{RM}	15	V
Reverse voltage	V _R	10	V
Maximum (peak) forward current	I _{FM}	200 (*)	mA
Average forward current	Io	100 (*)	mA
Surge current (10ms)	I _{FSM}	1 (*)	Α
Power dissipation	Р	100 (*)	mW
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55~125	°C
Operating temperature range	T _{opr}	-40~100	°C

Unit

V

V

MA

MA

MW

°C

°C

C

C

LESM

ESM

EIAJ

TOSHIBA Weight: 2.3 g

1.0 ± 0.1

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).

*: Unit rating. Total rating = unit rating × 1.5

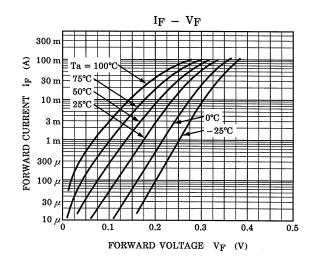
Electrical Characteristics (Ta = 25°C)

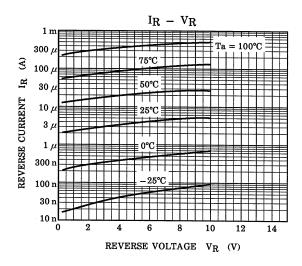
Characteristic	Symbol	Test Circuit	Test Condition	Min.	Тур.	Max.	Unit
Forward voltage	V _{F (1)}	_	I _F = 1mA	_	0.18	_	V
	V _{F (2)}	_	I _F = 5mA	_	0.23	0.30	٧
	V _{F (3)}	_	I _F = 100mA	_	0.35	0.50	٧
Reverse current	I _R	_	V _R = 10V	_	_	20	μΑ
Total capacitance	C _T	_	V _R = 0, f = 1MH _z	_	20	40	pF

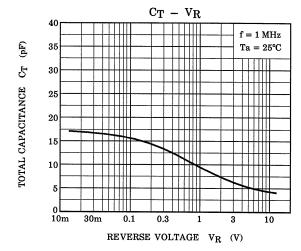
Equivalent Circuit (Top View)

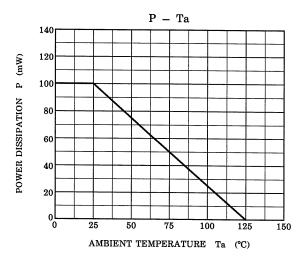












RESTRICTIONS ON PRODUCT USE

20070701-EN GENERAL

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