Unit: mm

1.2±0.05 0.8±0.05

ANODE 1

ANODE 2 CATHODE

1-1Q1A

VESM

JEDEC

TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS385FV

High-Speed Switching Applications

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

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	٧	
Maximum (peak) forward current	I _{FM}	200 *	mA	
Average forward current	Io	100 *	mA	
Surge current (10 ms)	I _{FSM}	1 *	Α	
Power dissipation	Р	150**	mW	
Junction temperature	Tj	125	°C	
Storage temperature range	T _{stg}	−55 to 125	°C	
Operating temperature range	T _{opr}	-40 to 100	°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).

- *: Unit rating. Total rating = unit rating × 1.5
- ** : Mounted on an FR4 board (25.4 mm \times 25.4 mm \times 1.6 mmt)

Electrical Characteristics (Ta = 25°C)

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

Equivalent Circuit (Top View)

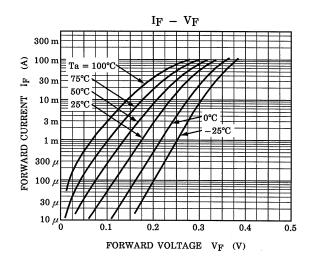


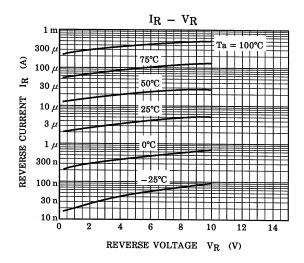


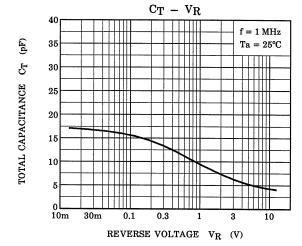


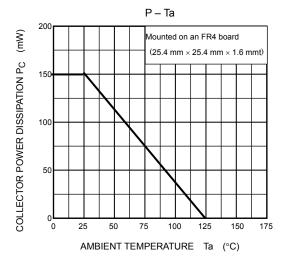
Start of commercial production 2005-02

2014-03-01









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3

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