Unit: mm

-0.05 ⊕ 0.1® A

TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS384

Low Voltage High Speed Switching

- Composed of 2 independent diodes.
- Low forward voltage: $V_F(2) = 0.23V$ (typ.) @ $I_F = 5mA$

Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit	
Maximum (peak) reverse Voltage	V _{RM}	15	V	
Reverse voltage	VR	10	V	
Maximum (peak) forward current	IFM	200 *	mA	
Average forward current	lo	100 *	mA	
Surge current (10ms)	IFSM	1 *	Α	
Power dissipation	Р	100 *	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

ANODE 1 CATHODE 2 USQ CATHODE 1 **JEDEC JEITA** 2-2K1S **TOSHIBA** Weight: 0.006g (typ.)

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Condition	Min	Тур.	Max	Unit
Forward voltage	VF (1)	IF = 1mA	_	0.18	_	
	VF (2)	I _F = 5mA	_	0.23	0.30	V
	VF (3)	I _F = 100mA	_	0.35	0.50	
Reverse current	IR	V _R = 10V	-	_	20	μA
Total capacitance	Ст	$V_R = 0V$, $f = 1MH_z$	_	20	40	pF

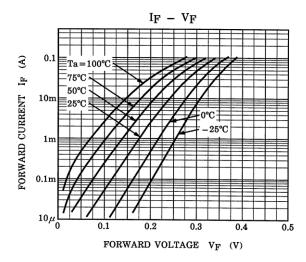
Pin Assignment (Top View)

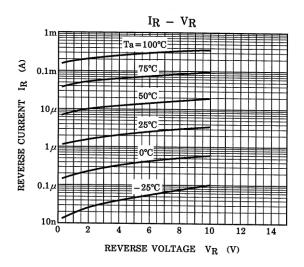


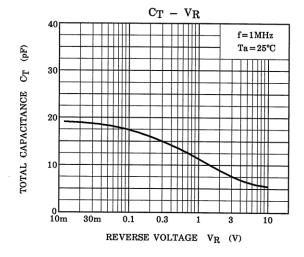
Marking

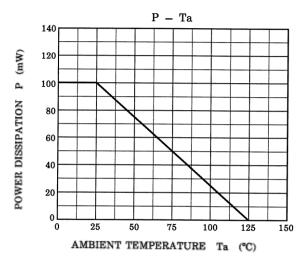


Start of commercial production 1994-09









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TOSHIBA ELECTRONIC DEVICES & STORAGE CORPORATION

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2018-09-07

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