Unit: mm

TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS383

Low Voltage High Speed Switching

Small package

Composed of 2 independent diodes.

Low forward voltage: $V_{F(3)} = 0.54V$ (typ.)

Low reverse current: $IR = 5\mu A \text{ (max)}$

Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse Voltage	V_{RM}	45	V
Reverse voltage	V _R	40	V
Maximum (peak) forward current	I _{FM}	300 *	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

ANODE 1 ANODE 2 CATHODE 2 USQ CATHODE 1 **JEDEC** JEITA **TOSHIBA** 1-2U1A Weight: 0.006g (typ.)

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

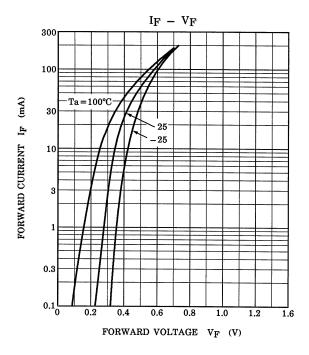
Electrical Characteristics (Ta = 25°C)

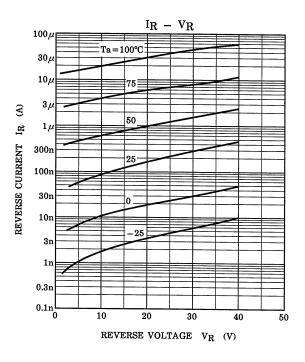
Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V _{F (1)}	_	I _F = 1mA	_	0.28	_	V
	V _{F (2)}	_	I _F = 10mA	_	0.36	_	V
	V _{F (3)}	_	I _F = 100mA	_	0.54	0.60	V
Reverse current	I _R	_	V _R = 40V	_	_	5	μΑ
Total capacitance	C _T	_	V _R = 0, f = 1MH _z	-	18	25	pF

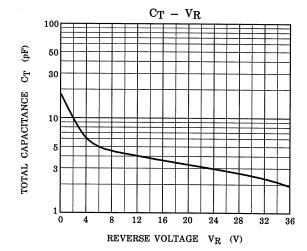
Pin Assignment (Top View)



Marking







2

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