TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

# **1SS384**

### Low Voltage High Speed Switching

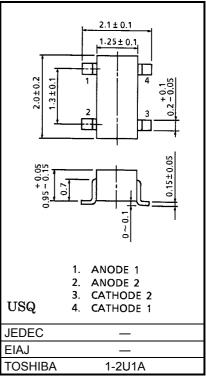
Unit: mm

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

### **Maximum Ratings (Ta = 25°C)**

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

<sup>\*:</sup> Unit rating. Total rating = unit rating × 1.5



Weight: 0.006g

### **Electrical Characteristics (Ta = 25°C)**

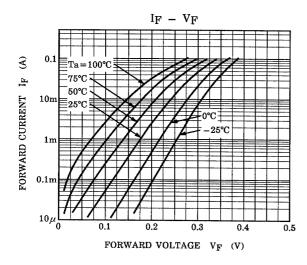
Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V <sub>F (1)</sub>	_	I <sub>F</sub> = 1mA	_	0.18	-	V
	V <sub>F (2)</sub>	_	I <sub>F</sub> = 5mA	_	0.23	0.30	V
	V <sub>F (3)</sub>	_	I <sub>F</sub> = 100mA	_	0.35	0.50	V
Reverse current	I <sub>R</sub>	_	V <sub>R</sub> = 10V	_	_	20	μΑ
Total capacitance	C <sub>T</sub>	_	$V_R = 0$ , $f = 1MH_Z$	_	20	40	pF

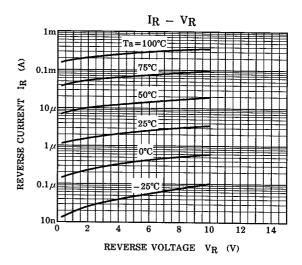
# **Pin Assignment (Top View)**

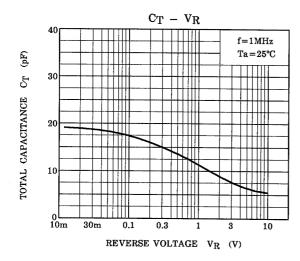


# Marking









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