Unit: mm

查询"1SS396\_07"供应商OSHIBA Diode Silicon Epitaxial Schottky Barrier Type

# **1SS396**

### Low Voltage High Speed Switching

• Small package : SC-59

#### Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse Voltage	$V_{RM}$	45	V
Reverse voltage	V <sub>R</sub>	40	V
Maximum (peak) forward current	I <sub>FM</sub>	300 *	mA
Average forward current	Io	100 *	mA
Surge current (10ms)	I <sub>FSM</sub>	1 *	Α
Power dissipation	Р	150 *	mW
Junction temperature	Tj	125	°C
Storage temperature range	T <sub>stg</sub>	<b>-</b> 55~125	°C
Operating temperature range	T <sub>opr</sub>	<b>−</b> 40~100	°C

1. ANODE 1
2. CATHODE 2
3. ANODE 2,
CATHODE 1
JEDEC TO-236MOD
EIAJ SC-59
TOSHIBA 1-3G1G

Weight: 0.012g

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in

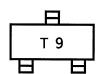
temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings. Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability 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  $\times$  0.7

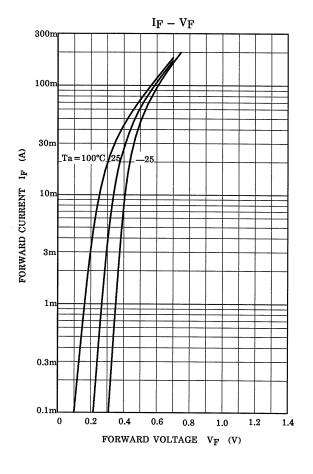
#### **Electrical Characteristics (Ta = 25°C)**

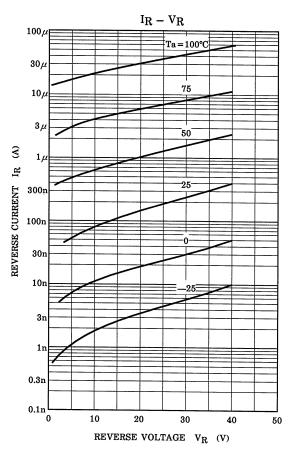
Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit	
Forward voltage	V <sub>F (1)</sub>	_	I <sub>F</sub> = 1mA	1	0.28	_	_	
	V <sub>F (2)</sub>	_	I <sub>F</sub> = 10mA	1	0.36	_	V	
	V <sub>F (3)</sub>	_	I <sub>F</sub> = 100mA	_	0.54	0.60		
Reverse current	I <sub>R</sub>	_	V <sub>R</sub> = 40V	_	_	5	μΑ	
Total capacitance	C <sub>T</sub>	_	V <sub>R</sub> = 0, f = 1MH <sub>z</sub>		18	25	pF	

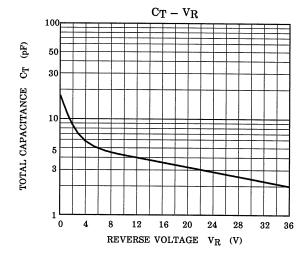
#### Marking

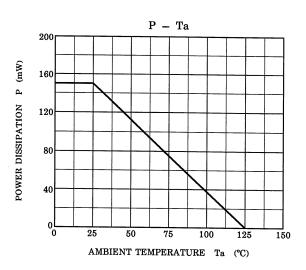


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20070701-EN GENERAL

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