Unit: mm

TOSHIBA 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	٧
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	150 *	mW
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55~125	°C
Operating temperature range	T _{opr}	− 40~100	°C

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

Weight: 0.012g (typ.)

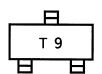
Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in

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).

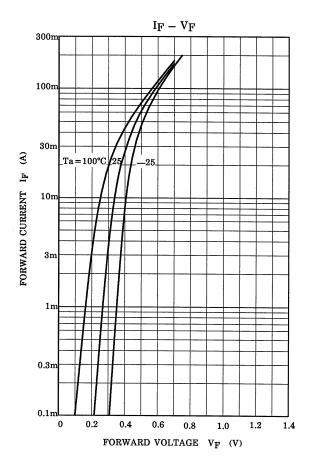
Electrical Characteristics (Ta = 25°C)

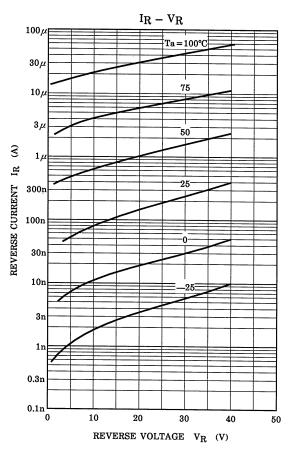
Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit	
Forward voltage	V _{F (1)}	_	I _F = 1mA	_	0.28	_		
	V _{F (2)}	_	I _F = 10mA	_	0.36	_	V	
	V _{F (3)}	_	I _F = 100mA	_	0.54	0.60		
Reverse current	I _R	_	V _R = 40V	_	_	5	μΑ	
Total capacitance	C _T	_	V _R = 0, f = 1MH _z	_	18	25	pF	

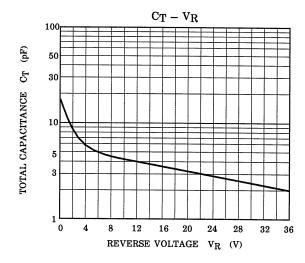
Marking

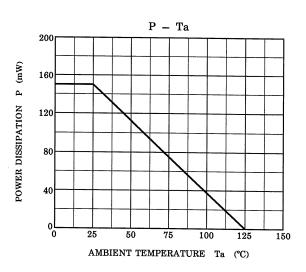


^{*} Unit rating. Total rating = unit rating \times 0.7









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