TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS396

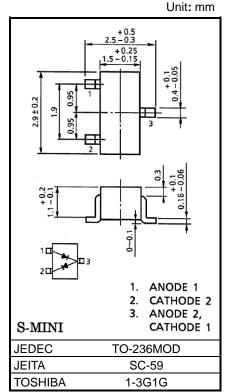
Low Voltage High Speed Switching

• Small package : SC-59	
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- Low forward voltage : $V_F (3) = 0.54V$ (typ.)
- Low reverse current $: I_R = 5\mu A (max.)$

Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse Voltage	Vrm	45	V
Reverse voltage	VR	40	V
Maximum (peak) forward current	IFM	300 *	mA
Average forward current	lo	100 *	mA
Surge current (10ms)	IFSM	1 *	А
Power dissipation	Р	150	mW
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55 to 125	°C
Operating temperature range	Topr	-40 to 100	°C



Note: Using continuously under heavy loads (e.g. the application of high Weight: 0.012g (typ.)

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 × 0.7

Electrical Characteristics (Ta = 25°C)

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

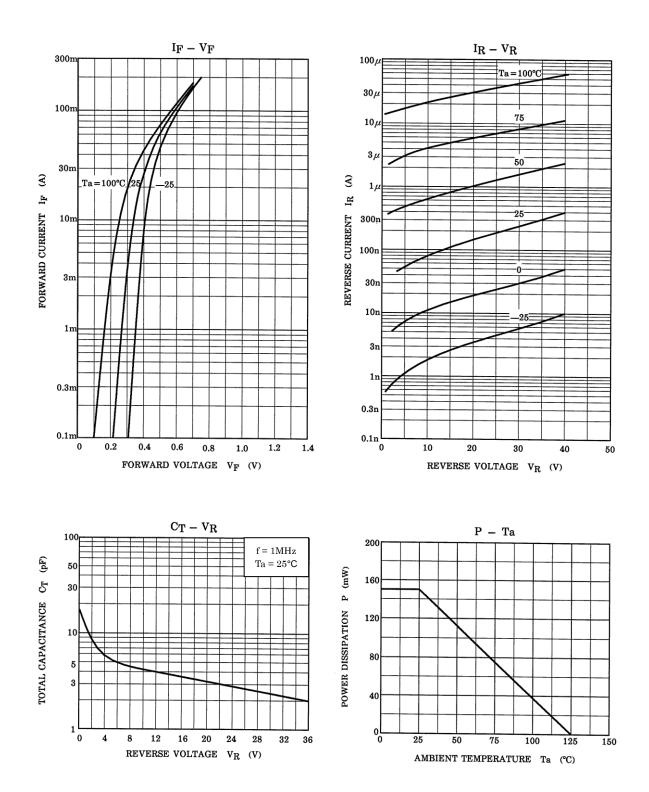
Marking



Start of commercial production 1996-04

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TOSHIBA



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