TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS294

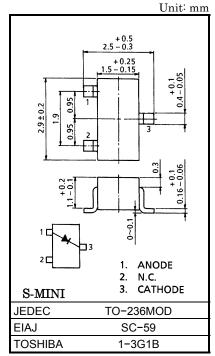
Low Voltage High Speed Switching

 $V_{F(3)} = 0.54V \text{ (typ.)}$ Low forward voltage Low reverse surrent $: I_R = 5\mu A \text{ (max)}$

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 _R	40	٧	
Maximum (peak) forward current	I _{FM}	300	mA	
Average forward current	IO	100	mA	
Power dissipation	Р	150	mW	
Junction temperature	Tj	125	°C	
Storage temperature range	T _{stg}	-55~125	°C	



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.

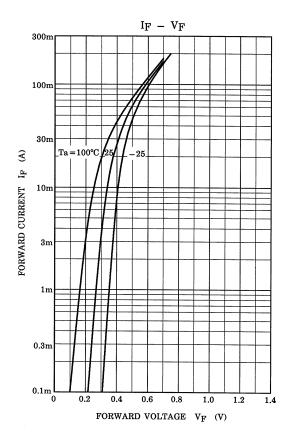
Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

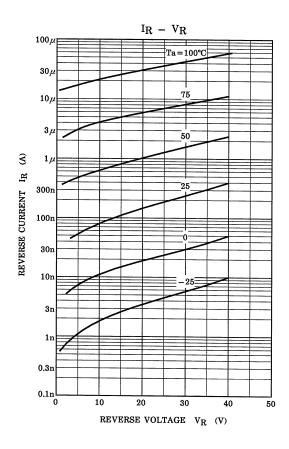
Electrical Characteristics (Ta = 25°C)

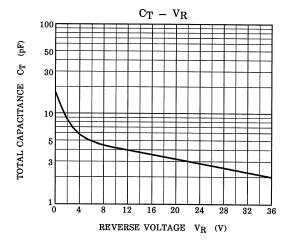
Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V _{F (1)}	_	I _F = 1mA	1	0.28	1	_
	V _{F (2)}	_	I _F = 10mA	1	0.36	1	V
	V _{F (3)}	_	I _F = 100mA		0.54	0.60	
Reverse current	I _R	_	V _R = 40V	1	_	5	μΑ
Total capacitance	C _T	_	V _R = 0, f = 1MHz	_	18	25	pF

Marking









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20070701-EN GENERAL

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