TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS294

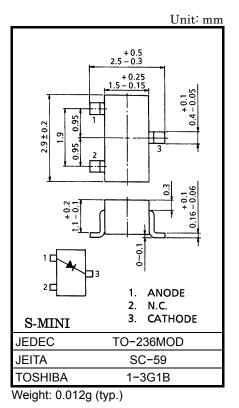
Low Voltage High Speed Switching

• Low forward voltage $: V_F(3) = 0.54V($	(typ.)
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- Low reverse surrent
- : I_R = 5µA (max)
- Small package
- $: IR = 5\mu A (max)$: 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	V
Maximum (peak) forward current	I _{FM}	300	mA
Average forward current	Ι _Ο	100	mA
Power dissipation	Р	150	mW
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55~125	°C



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).

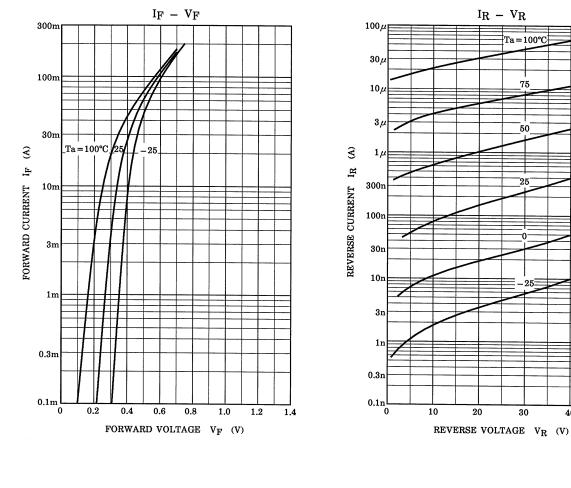
Electrical Characteristics (Ta = 25°C)

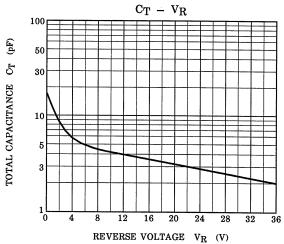
Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V _{F (1)}	_	I _F = 1mA	_	0.28	_	
	V _{F (2)}	_	I _F = 10mA	_	0.36	_	V
	V _{F (3)}	_	I _F = 100mA	_	0.54	0.60	
Reverse current	I _R	_	V _R = 40V	_	_	5	μA
Total capacitance	CT	_	V _R = 0, f = 1MHz		18	25	pF

Marking



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