TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS322

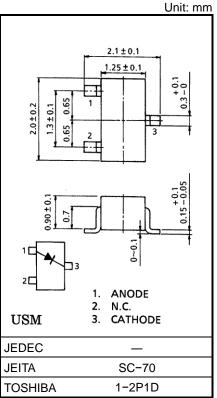
Low Voltage High Speed Switching

• Low forward voltage : V _F (3) = 0.54 V (typ.)
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- Low reverse current
- : IR = $5\mu A (max)$
- Small package : SC-70
- $R = 5\mu A (max)$

Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse voltage	V _{RM}	45	V
Reverse voltage	VR	40	V
Maximum (peak) forward current	IFM	300	mA
Average forward current	lo	100	mA
Power dissipation	Р	100	mW
Junction temperature	Tj	125	°C
Storage temperature	T _{stg}	-55 to 125	°C



Weight: 0.006g (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

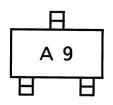
reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

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).

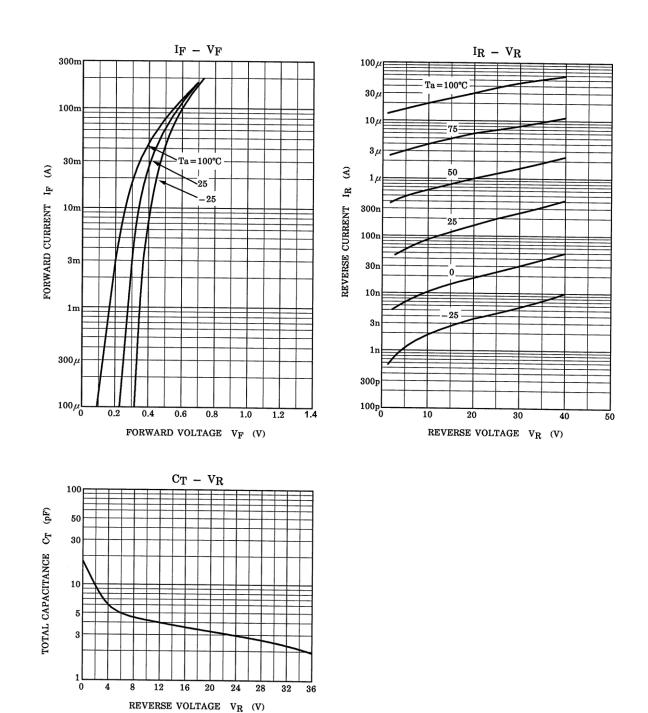
Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Condition	Min	Тур.	Max	Unit
Forward voltage	VF (1)	IF = 1mA	_	0.28	_	
	VF (2)	IF = 10mA		0.36		V
	VF (3)	IF = 100mA	_	0.54	0.60	
Reverse current	IR	V _R = 40V	_	_	5	μΑ
Total capacitance	Ст	VR = 0, f = 1MHz		18	25	pF

Marking



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