TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

# **1SS322**

## Low Voltage High Speed Switching

• Small package : SC-70

## **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	I <sub>FM</sub>	300	mA	
Average forward current	Io	100	mA	
Power dissipation	Р	100	mW	
Junction temperature	Tj	125	°C	
Storage temperature	T <sub>stg</sub>	-55 to 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).

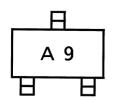
# 2.1±0.1 1.25±0.1 1. ANODE 2. N.C. USM 3. CATHODE JEDEC JEITA SC-70 TOSHIBA 1-2P1D

Weight: 0.006g (typ.)

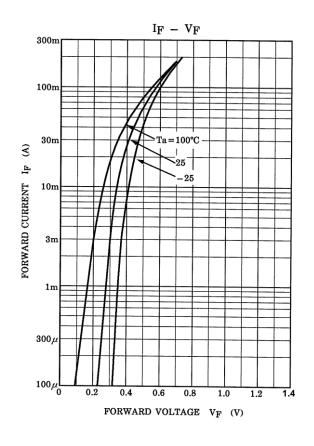
## **Electrical Characteristics (Ta = 25°C)**

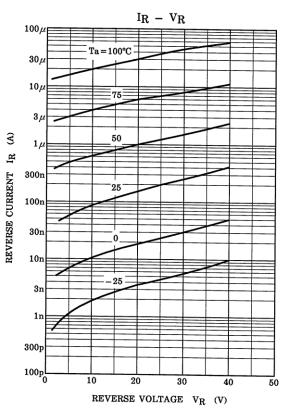
Characteristic	Symbol	Test Condition	Min	Тур.	Max	Unit
Forward voltage	VF (1)	IF = 1mA		0.28		V
	VF (2)	IF = 10mA		0.36	1	
	VF (3)	IF = 100mA	_	0.54	0.60	
Reverse current	IR	V <sub>R</sub> = 40V	_	_	5	μΑ
Total capacitance	Ст	V <sub>R</sub> = 0, f = 1MHz	_	18	25	pF

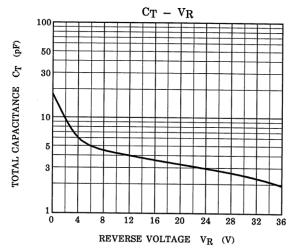
## Marking



Start of commercial production 1988-01







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