

TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

# 1SS372

## High Speed Switching Application

- Small package
- Low forward voltage:  $V_F = 0.23V$  (typ.) @  $I_F = 5mA$

## Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse voltage	$V_{RM}$	15	V
Reverse voltage	$V_R$	10	V
Maximum (peak) forward current	$I_{FM}$	200 *	mA
Average forward current	$I_O$	100 *	mA
Surge current (10ms)	$I_{FSM}$	1 *	A
Power dissipation	P	100	mW
Junction temperature	$T_j$	125	°C
Storage temperature range	$T_{stg}$	-55 to 125	°C
Operating temperature range	$T_{opr}$	-40 to 100	°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.

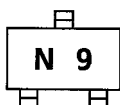
Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

\* Unit rating. Total rating = unit rating × 0.7

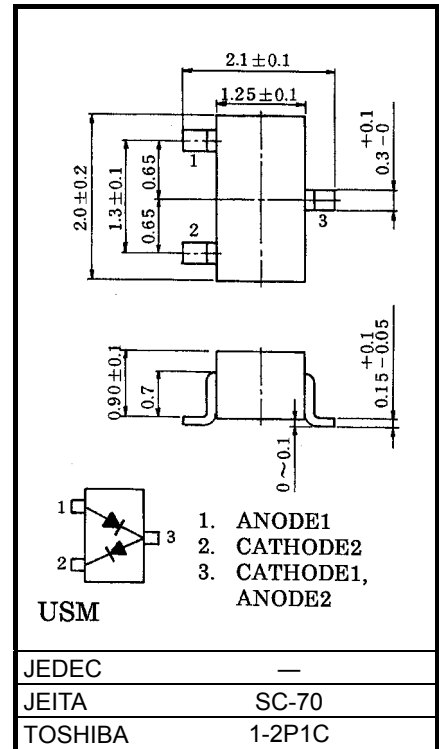
## Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Typ.	Max	Unit
Forward voltage	$V_F$ (1)	—	$I_F = 1mA$	—	0.18	—	V
	$V_F$ (2)	—	$I_F = 5mA$	—	0.23	0.30	
	$V_F$ (3)	—	$I_F = 100mA$	—	0.35	0.50	
Reverse current	$I_R$	—	$V_R = 10V$	—	—	20	μA
Total capacitance	$C_T$	—	$V_R = 0, f = 1MHz$	—	20	40	pF

## Marking



Unit: mm



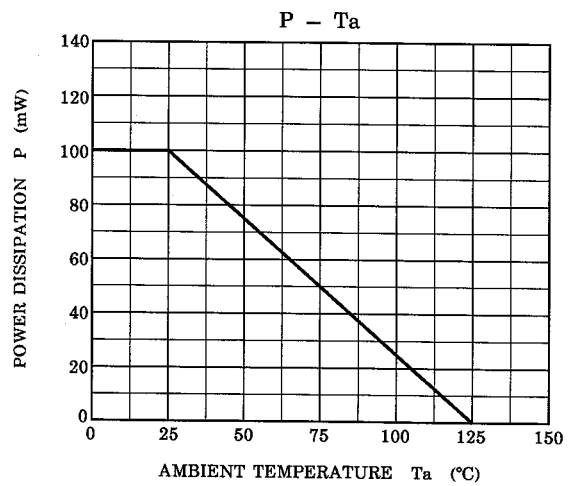
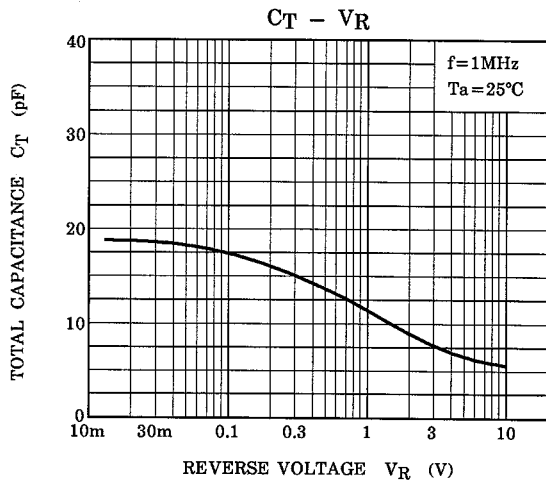
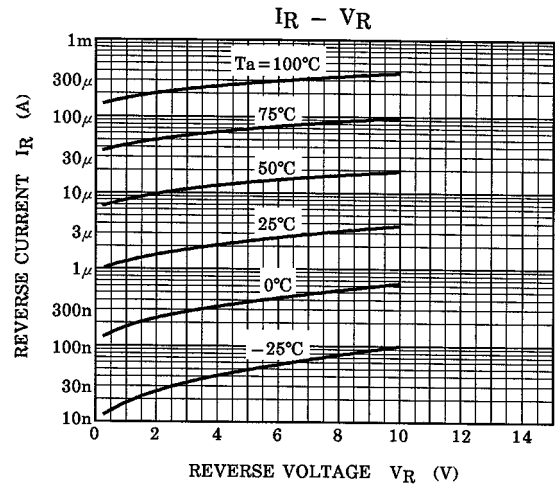
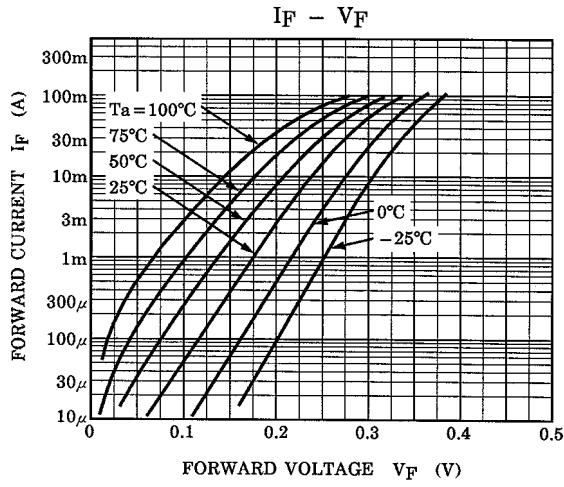
USM

1. ANODE1
2. CATHODE2
3. CATHODE1, ANODE2

JEDEC	—
JEITA	SC-70
TOSHIBA	1-2P1C

Weight: 0.006g (typ.)

Start of commercial production  
1993-04



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