

TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS367

High Speed Switching Application

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

Absolute Maximum Ratings (Ta = 25°C)

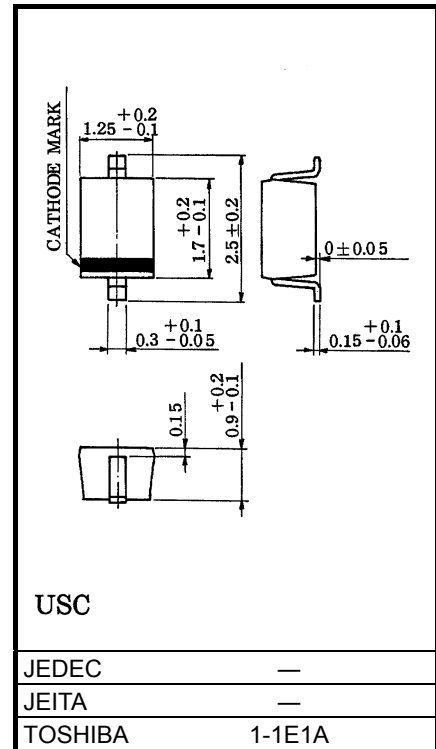
Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse voltage	V_{RM}	15	V
Reverse voltage	V_R	10	V
Maximum (peak) forward current	I_{FM}	200	mA
Average forward current	I_O	100	mA
Surge current (10ms)	I_{FSM}	1	A
Power dissipation	P^*	200	mW
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}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

* Mounted on a glass epoxy circuit board of 20 × 20 mm
Pad dimension of 4 × 4 mm.

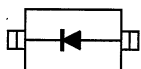
Unit: mm



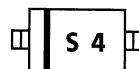
Electrical Characteristics (Ta = 25°C)

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

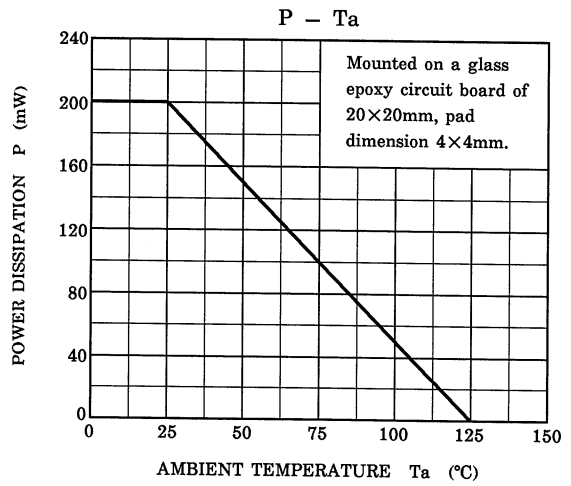
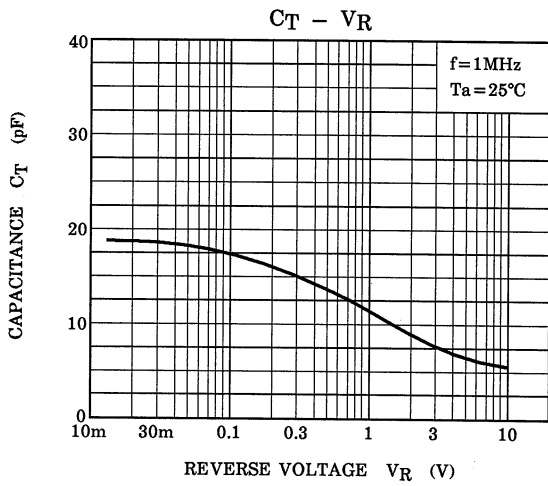
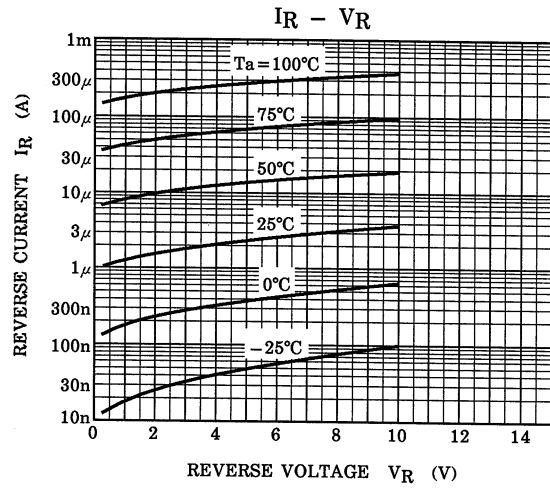
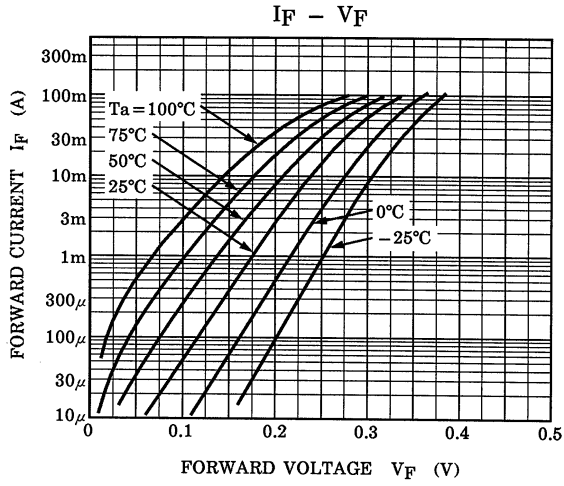
Equivalent Circuit (Top View)



Marking



Start of commercial production
1993-04



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