Unit: mm

TOSHIBA Diode Silicon Epitaxial Schottky Planar Type

1SS344

Ultra High Speed Switching Application

 $\begin{array}{ll} \bullet & \text{Low forward voltage} & : V_{F\,(3)} = 0.50 \text{V (typ.)} \\ \bullet & \text{Fast reverse recovery time} & : t_{rr} = 20 \text{ns (typ.)} \\ \bullet & \text{High average forward current} & : I_{O} = 0.5 \text{A (max)} \\ \end{array}$

Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit	
Maximum (peak) reverse voltage	V_{RM}	25	V	
Reverse voltage	V _R	20	V	
Maximum (peak) forward current	I _{FM}	1500	mA	
Average forward current	ΙO	500	mA	
Surge current (10ms)	I _{FSM}	5	Α	
Power dissipation	Р	200	mW	
Junction temperature	Tj	125	°C	
Storage temperature	T _{stg}	-55~125	°C	
Operating Temperature	T _{opr}	-40~100	°C	

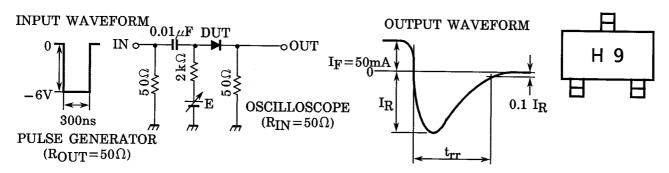
1. ANODE 2. N.C. S-MINI 3. CATHODE JEDEC TD-236MOD EIAJ SC-59 TOSHIBA 1-3G1B

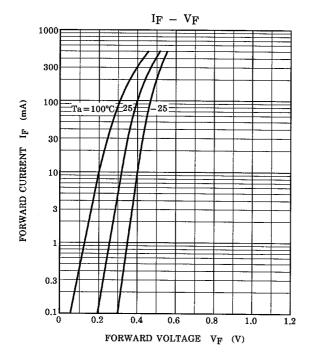
Weight: 0.012g

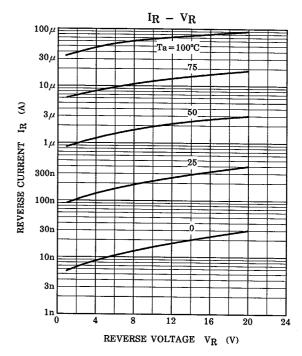
Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit	
Forward voltage	V _{F (1)}	_	I _F = 10mA	1	0.30	_		
	V _{F (2)}	_	I _F = 100mA	1	0.38	1	V	
	V _{F (3)}	_	I _F = 500mA	_	0.50	0.55		
Reverse current	I _{R (1)}	_	V _R = 10V	_	_	20		
	I _{R (2)}	_	V _R = 20V	_	_	100	μA	
Total capacitance	C _T	_	V _R = 0, f = 1MHz	_	120	_	pF	
Reverse recovery time	t _{rr}	_	I _F = 50mA, (Fig.1)	-	20	_	ns	

Fig.1 Reverse Recovery Time (trr) Test Circuit Marking







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