TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS404

High Speed Switching Applications

• Two-pin small packages are suitable for higher mounting densities

Low forward voltage: V_F (3) = 0.38 V (typ.)

Low reverse current: I_R = 50 μA (max)

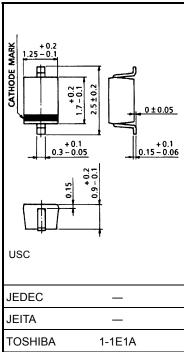
• Small total capacitance: C_T = 46 pF (typ.)

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit	
Maximum (peak) reverse voltage	V_{RM}	25	V	
Reverse voltage	V _R	20	V	
Maximum (peak) forward current	I _{FM}	700	mA	
Average forward current	ΙO	300	mA	
Power dissipation	Р	200 (Note)	mW	
Junction temperature	Tj	125	°C	
Storage temperature range	T _{stg}	−55 ~ 125	°C	
Operating temperature range	T _{opr}	−40 ~ 100	°C	

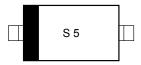
Note: Mounted on a glass epoxy board of 20 mm \times 20 mm, pad dimension 4 mm \times 4 mm.

Unit: mm

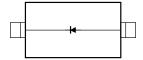


Weight: 0.004 g (typ.)

Marking



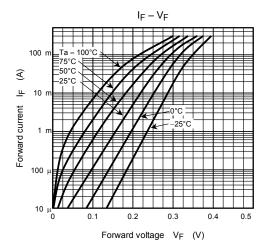
Equivalent Circuit (top view)

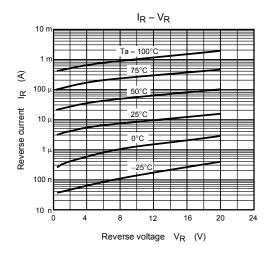


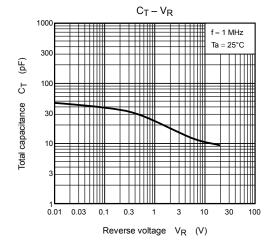
Electrical Characteristics (Ta = 25°C)

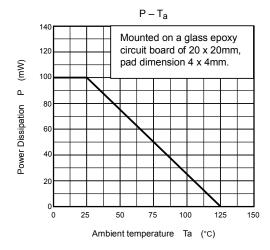
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V _{F (1)}	I _F = 1 mA		0.16		
	V _{F (2)}	I _F = 10 mA	_	0.22	_	V
	V _{F (3)}	I _F = 300 mA	_	0.38	0.45	
Reverse current	I _R	$V_R = 20 \text{ V}$	_	_	50	μΑ
Total capacitance	C _T	$V_R = 0$, $f = 1$ MHz	_	46	_	pF

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