TOSHIBA Diode Silicon Epitaxial Shottlky Barrire Type

1SS404

High Speed Switching Applications

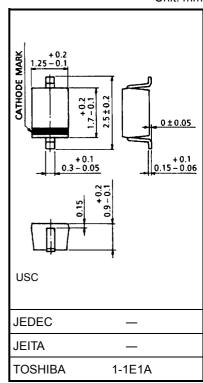
Unit: mm

- Tow-pin small packages are suitable for higher mounting densities
- Excellent in Forward Current and Forward Voltage Characteristics : $V_{F(3)} = 0.8 V \text{ (typ.)}$
- Fast Reverse Recovery Time: $I_R = 50 \mu A (max)$
- Small Total Capacitance: CT = 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	Io	300	mA	
Power dissipation	Р	200 (Note)	mW	
Junction temprature	Tj	125	°C	
Storage temperature range	T _{stg}	-55 to 125	°C	

Note: When mounted on a glass epoxy board PCB: 20 mm \times 20 mm, with copper pad 4 mm \times 4 mm.



Weight: 0.004 g (typ.)

Marking

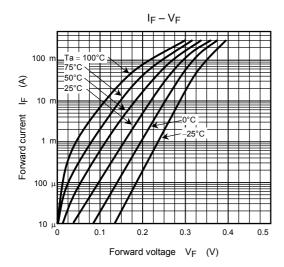


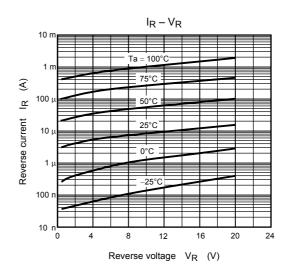
Equivalent Circuit (top view)

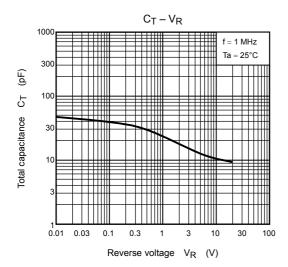


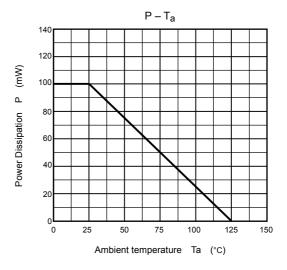
Electrical Characteristics (Ta = 25°C)

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 V	_	_	50	μΑ
Total capacitance	C _T	$V_R = 0$, $f = 1$ MHz	_	46	_	pF









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