TOSHIBA

1SS402

TENTATIVE

TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

1 S S 4 0 2

 $: C_{T} = 3.9 \, \text{pF} (Typ.)$

HIGH SPEED SWITCHING APPLICATIONS

- Two independent diodes are mounted on four-pin ultra-small packages that are suitable for higher mounting densities.
- Low Forward Voltage $: V_{F(3)} = 0.50 V (Typ.)$
- : $I_R = 0.5 \ \mu A$ (Max.) Low Reverse Current
- Small Total Capacitance

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Maximum (Peak) Reverse Voltage	V _{RM}	25	V	
Reverse Voltage	VR	20	V	
Maximum (Peak) Forward Current	I _{FM}	100 (*)	mA	
Average Forward Current	IO	50 (*)	mA	
Surge Current (10ms)	I _{FSM}	1 (*)	Α	
Power Dissipation	Р	100	mW	
Junction Temperature	Tj COV	125	°C	
Storage Temperature Range	T _{stg}	$-55 \sim 125$	°C	





(*) Unit Rating. Total Rating = Unit Rating \times 1.5

ELECTRICAL CHARACTERISTICS (Ta = 25° C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_{F(1)}$	$I_{\rm F} = 1 {\rm mA}$	_	0.33	—	
	$V_{F(2)}$	$I_{\rm F} = 5 \mathrm{mA}$	—	0.38	_	V
	V _F (3)	$I_F = 50 \text{ mA}$	—	0.50	0.55]
Reverse Current	$I_{R(1)}$	$V_{R} = 20 V$	—		0.5	μA
Total Capacitance	CT	$V_{R} = 0, f = 1 MHz$	_	3.9	5.0	pF

PIN ASSIGNMENT (TOP VIEW)

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MARKING



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