TOSHIBA

TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

1 S S 3 7 4

HIGH SPEED SWITCHING APPLICATION

- Small Package
- Low Forward Voltage: $V_{F(2)} = 0.23V$ (TYP.) @ $I_F = 5mA$

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum (Peak) Reverse Voltage	v_{RM}	15	V
Reverse Voltage	$ m v_R$	10	V
Maximum (Peak) Forward Current	$I_{ ext{FM}}$	200 ※	mA
Average Forward Current	IO	100 ※	mA
Surge Current (10ms)	$I_{ ext{FSM}}$	1 ※	A
Power Dissipation	P	150	mW
Junction Temperature	T_{j}	125	°C
Storage Temperature Range	$\mathrm{T_{stg}}$	-55~125	°C
Operating Temperature Range	$T_{ m opr}$	-40~100	°C

Unit in mm +0.1 29土0.2 1. ANODE1 CATHODE2 S-MINI 3. CATHODE1, ANODE2 **JEDEC** TO-236MOD **EIAJ** SC-59 TOSHIBA 1-3G1G

Weight: 0.012g

※ Unit Rating. Total Rating=Unit Rating × 0.7

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_{F(1)}$	I _F =1mA		0.18		v
	$V_{F(2)}$	$I_{\mathbf{F}} = 5$ mA	_	0.23	0.30	
	$V_{F(3)}$	$I_{ m F} = 100 { m mA}$	_	0.35	0.50	
Reverse Current	$I_{\mathbf{R}}$	$V_R = 10V$	_	_	20	μ A
Total Capacitance	$\mathrm{C}_{\mathbf{T}}$	V_R =0, f=1MHz	_	20	40	рF

MARKING



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