TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

1 S S 3 7 2

HIGH SPEED SWITCHING APPLICATION

- Small Package
- Low Forward Voltage: VF=0.23V (TYP.) @IF=5mA

MAXIMUM RATINGS (Ta = 25°C)

100 0 0 10 10 10 10 10 C			
CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum (Peak) Reverse Voltage	$v_{ m RM}$	15	V
Reverse Voltage	$V_{\mathbf{R}}$	10	V
Maximum (Peak) Forward Current	$I_{ ext{FM}}$	200 ※	mA
Average Forward Current	IO	100 ※	mA
Surge Current (10ms)	I_{FSM}	1 ※	A
Power Dissipation	P	100	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 2.1 ± 0.1 1.25 ± 0.1 2.0 ± 0.2 ANODE1 CATHODE2 CATHODE1, ANODE2 USM **JEDEC EIAJ** SC-70 TOSHIBA 1-2P1C

Weight: 0.006g

※ Unit Rating. Total Rating = Unit Rating × 0.7

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

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

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