### TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

# 1 S S 3 9 1

#### LOW VOLTAGE HIGH SPEED SWITCHING

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

Small Package : SC-61

#### MAXIMUM RATINGS (Ta = 25°C)

MAXIMUM RATINGS (Ta = 25°C)	DZSC.CO	M	
CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum (Peak) Reverse Voltage	$v_{RM}$	15	V
Reverse Voltage	$V_{R}$	10	V
Maximum (Peak) Forward Current	$I_{FM}$	200 ※	mA
Average Forward Current	IO	100 ※	mA
Surge Current (10ms)	$I_{FSM}$	1 ※	A
Power Dissipation	P.C.CO	150	mW
Junction Temperature	$\mathrm{T_{j}}$	125	°C
Storage Temperature Range	$T_{ m stg}$	-55~125	°C
Operating Temperature Range	$T_{ m opr}$	-40~100	°C

※: Unit Rating. Total Rating=Unit Rating×1.5

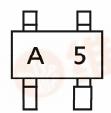
# Unit in mm 0.85 0.55 + 0.25 1.50 - 0.15 1. CATHODE 1 2. CATHODE 2 ANODE 2 ANODE 1 SMQ **JEDEC EIAJ** SC-61 TOSHIBA 2-3J1A

WWW.DZSC.C Weight: 0.013g

## ELECTRICAL CHARACTERISTICS (Ta = 25°C)

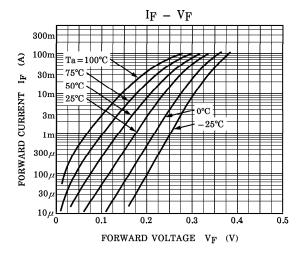
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	V <sub>F (1)</sub>	$I_{\mathbf{F}} = 1 \text{mA}$	_	0.18	_	V
	$V_{F(2)}$	$I_{\mathbf{F}} = 5 \text{mA}$		0.23	0.30	V
	$V_{F(3)}$	$I_{ m F}\!=\!100{ m mA}$	_	0.35	0.50	V
Reverse Current	$_{ m I_R}$	$V_{ m R}$ = 10 $V$	_	_	20	$\mu$ A
Total Capacitance	$\mathrm{c_{T}}$	$V_R=0$ , $f=1MHz$	-	20	40	pF

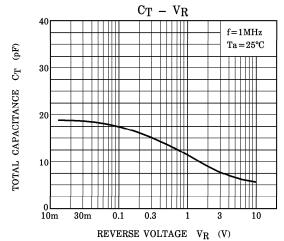
#### **MARKING**

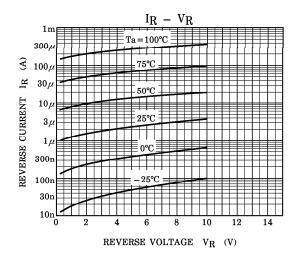


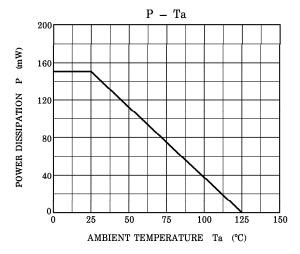
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**TOSHIBA 1SS391** 









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