### TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

## 1 S S 3 4 9

#### LOW VOLTAGE HIGH SPEED SWITCHING.

Low Forward Voltage: VF(3)=0.49V (Typ.)

Low Reverse Current :  $I_R = 50 \mu A$  (Max.)

Small Package : SC-59

#### MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum (Peak) Reverse Voltage	$v_{RM}$	25	V
Reverse Voltage	$V_{\mathbf{R}}$	20	V
Maximum (Peak) Forward Current	$I_{FM}$	3000	mA
Average Forward Current	IO	1000	mA
Power Dissipation	P	200	mW
Junction Temperature	$T_{j}$	125	$^{\circ}\mathrm{C}$
Storage Temperature Range	$\mathrm{T_{stg}}$	-55~125	°C
Operating Temperature Range	$T_{ m opr}$	-40~100	$^{\circ}\mathrm{C}$

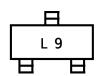
# Unit in mm 1. ANODE 2. N.C. 3. CATHODE S-MINI **JEDEC** TO-236MOD **EIAJ** SC-59 1-3G1B TOSHIBA

Weight: 0.012g

### ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	V <sub>F (1)</sub>	$I_{ m F} = 100 { m mA}$	_	0.34	_	
	$V_{F(2)}$	$I_{\mathbf{F}} = 500 \mathrm{mA}$		0.42		V
	$V_{F(3)}$	$I_{ m F}$ = 1000mA		0.49	0.55	
Reverse Current	${ m I_R}$	$V_R = 20V$	_	_	50	$\mu$ A
Total Capacitance	$\mathrm{C}_{\mathrm{T}}$	$V_R = 0$ , $f = 1MHz$	_	250	_	pF

#### **MARKING**



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