TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

155394

HIGH SPEED SWITCHING APPLICATION

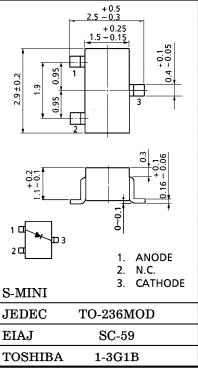
Small Package

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	$V_{\mathbf{R}}$	10	V	
Maximum (Peak) Forward Current	I_{FM}	200	mA	
Average Forward Current	IO	100	mA	
Surge Current (10ms)	I_{FSM}	1	Α	
Power Dissipation	P	150	mW	
Junction Temperature	T_j	125	°C	
Storage Temperature Range	$\mathrm{T_{stg}}$	-55~125	°C	
Operating Temperature Range	${ m T_{opr}}$	-40~100	$^{\circ}\mathrm{C}$	

Unit in mm

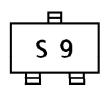


Weight: 0.012g

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		
	$V_{F(2)}$	$I_{\mathbf{F}} = 5$ 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	pF

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