

TOSHIBA DIODE SILICON EPITAXIAL PLANAR TYPE

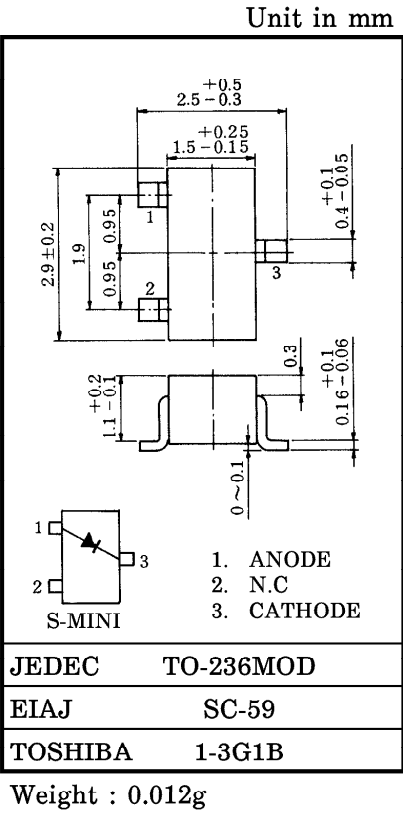
1SS307

GENERAL PUROPOSE RECTIFIER APPLICATIONS.

- Low Forward Voltage : $V_F=1.0V$ (Typ.)
- Low Reverse Current : $I_R=0.1nA$ (Typ.)
- Small Total Capacitance : $C_T=3.0pF$ (Typ.)
- Small Package : SC-59

MAXIMUM RATINGS ($T_a = 25^\circ C$)

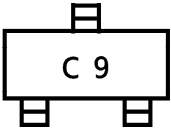
CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum (Peak) Reverse Voltage	V_{RM}	35	V
Reverse Voltage	V_R	30	V
Maximum (Peak) Forward Current	I_{FM}	300	mA
Average Forward Current	I_O	100	mA
Surge Current (10ms)	I_{FSM}	2	A
Power Dissipation	P	150	mW
Junction Temperature	T_j	125	$^\circ C$
Storage Temperature Range	T_{stg}	$-55 \sim 125$	$^\circ C$



ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ C$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	V_F	$I_F=100mA$	—	1.0	1.3	V
Reverse Current	I_R	$V_R=30V$	—	0.1	10	nA
Total Capacitance	C_T	$V_R=0, f=1MHz$	—	3.0	6.0	pF

Marking



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