

TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

1SS321

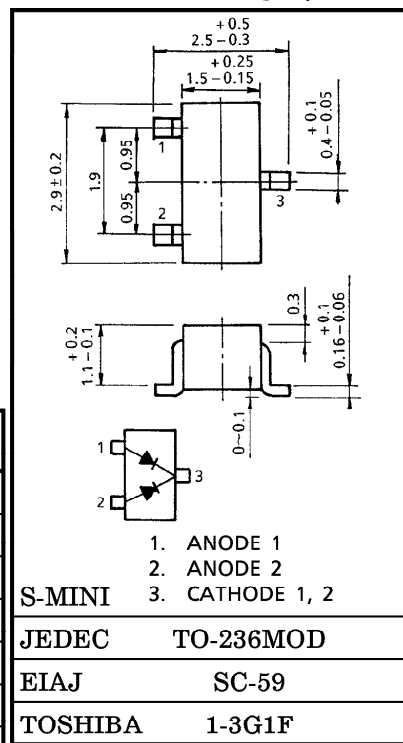
LOW VOLTAGE HIGH SPEED SWITCHING.

Unit in mm

- Low Forward Voltage : $V_F=0.42V$ (Typ.)
- Low Reverse Current : $I_R=500nA$ (Max.)
- Small Package : SC-59 (SOT-23MOD)

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum (Peak) Reverse Voltage	V_{RM}	12	V
Reverse Voltage	V_R	10	V
Maximum (Peak) Forward Current	I_{FM}	150 (*)	mA
Average Forward Current	I_O	50 (*)	mA
Surge Current ($t=10ms$)	I_{FSM}	1000 (*)	mA
Power Dissipation	P	150	mW
Junction Temperature	T_j	125	$^\circ C$
Storage Temperature Range	T_{stg}	-55 ~ 125	$^\circ C$



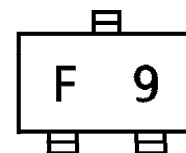
Weight : 0.012g

(*) Unit Rating. Total Rating=Unit Rating×1.5.

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

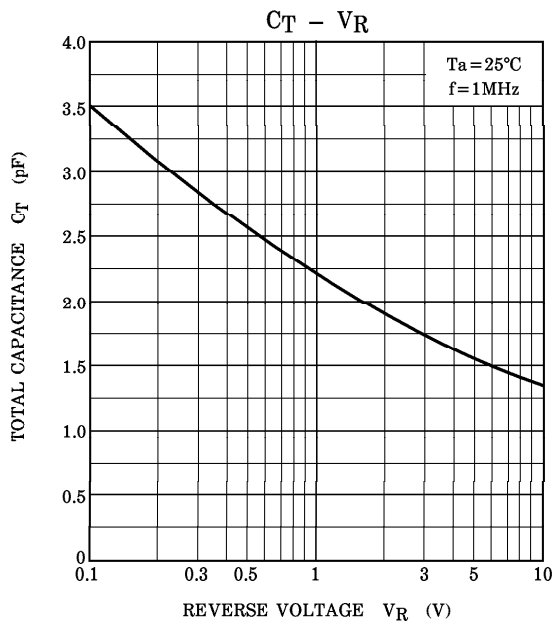
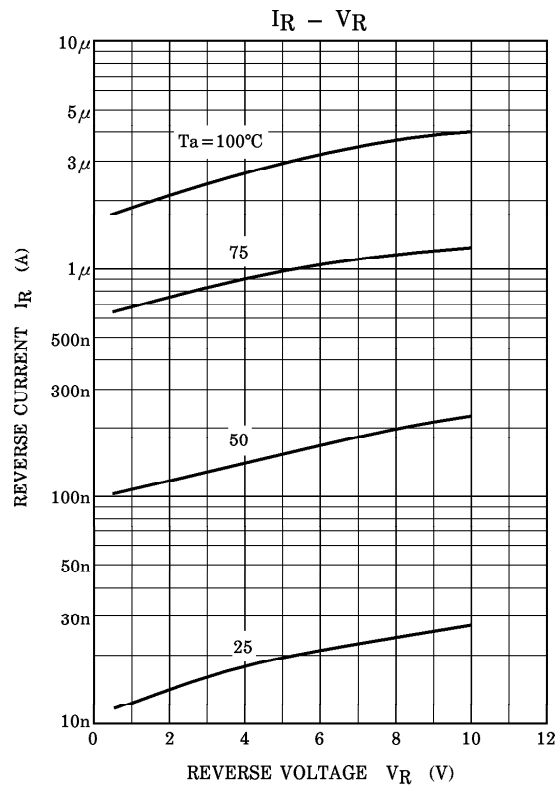
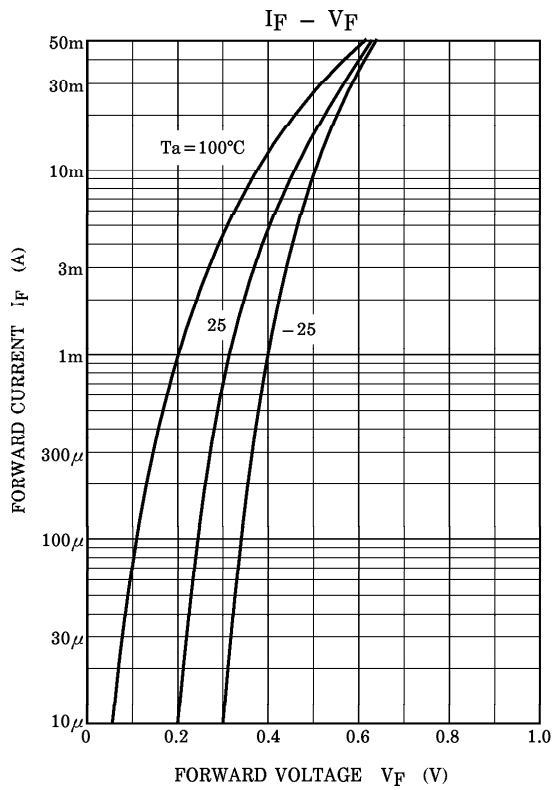
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_F(1)$	$I_F=1mA$	—	0.32	—	V
	$V_F(2)$	$I_F=10mA$	—	0.42	—	
	$V_F(3)$	$I_F=50mA$	—	0.63	1.00	
Reverse Current	I_R	$V_R=10V$	—	—	500	nA
Total Capacitance	C_T	$V_R=0, f=1MHz$	—	3.2	4.5	pF

MARKING



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