

TOSHIBA Diode Silicon Epitaxial Planar Type

# 1SS321

Unit: mm

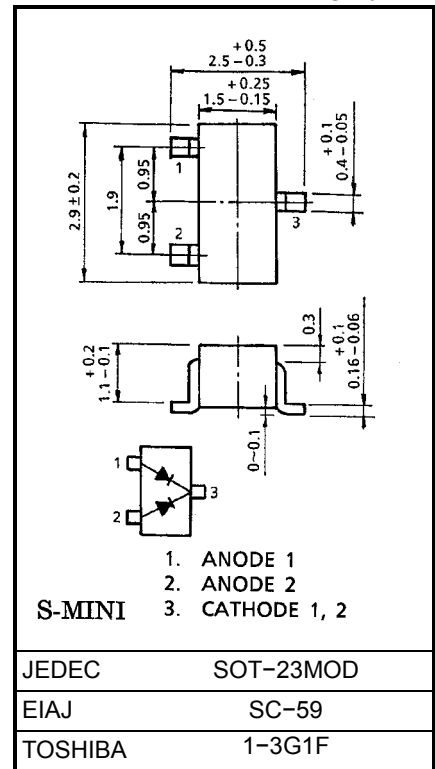
## Low Voltage High Speed Switching

- Low forward voltage :  $V_F = 0.42V$  (typ.)
- Low reverse current :  $I_R = 500nA$  (max)
- Small package : SC-59 (SOT-23MOD)

## Maximum Ratings (Ta = 25°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 (10ms)	$I_{FSM}$	1000 (*)	mA
Power dissipation	P	150	mW
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-55-125	°C

(\*) Unit rating. Total rating = unit rating × 1.5.

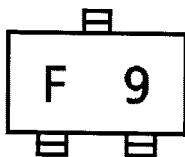


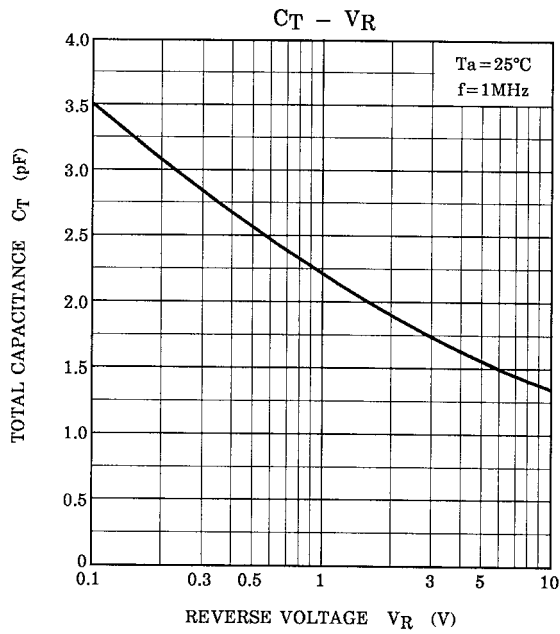
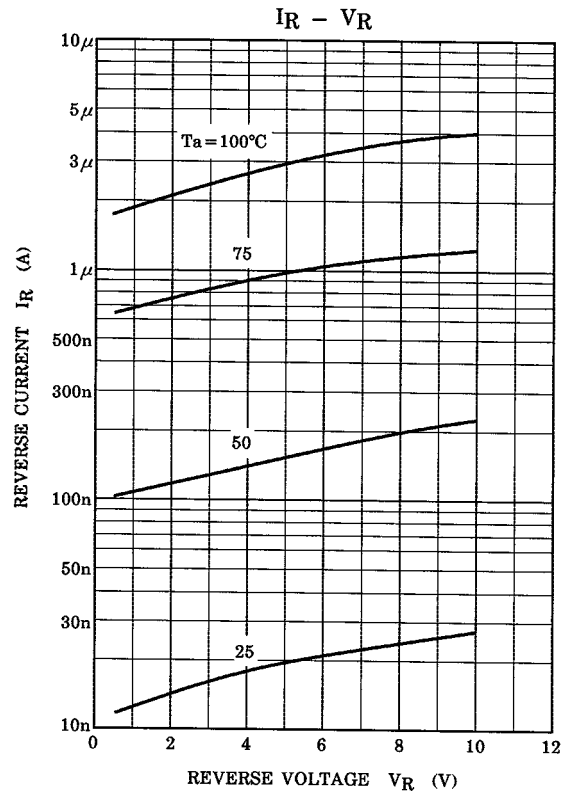
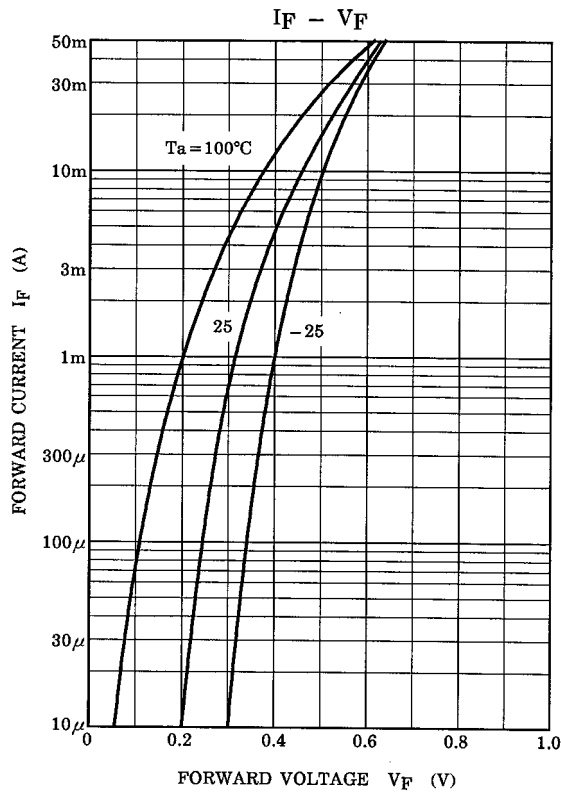
Weight: 0.012g

## Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	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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