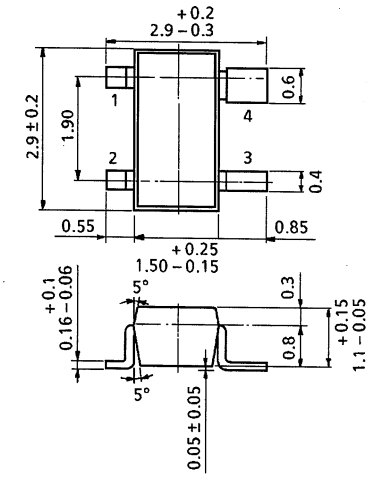
TOSHIBA Diode Silicon Epitaxial Planar Type

1SS319

Low Voltage High Speed Switching

- Low forward voltage : V_F (3) = 0.54V (typ.)
- Low reverse current : I_R = 5μA (max)
- Small package : SC-61

Unit: mm



JEDEC	—
EIAJ	SC−61
TOSHIBA	2−3J1A

Weight: 0.013g

Maximum Ratings (Ta = 25°C)

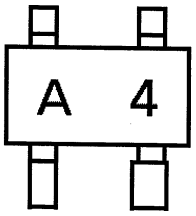
Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse voltage	V_{RM}	45	V
Reverse voltage	V_R	40	V
Maximum (peak) forward current	I_{FM}	300 (*)	mA
Average forward current	I_O	100 (*)	mA
Power dissipation	P	150 (*)	mW
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	−55~125	°C

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

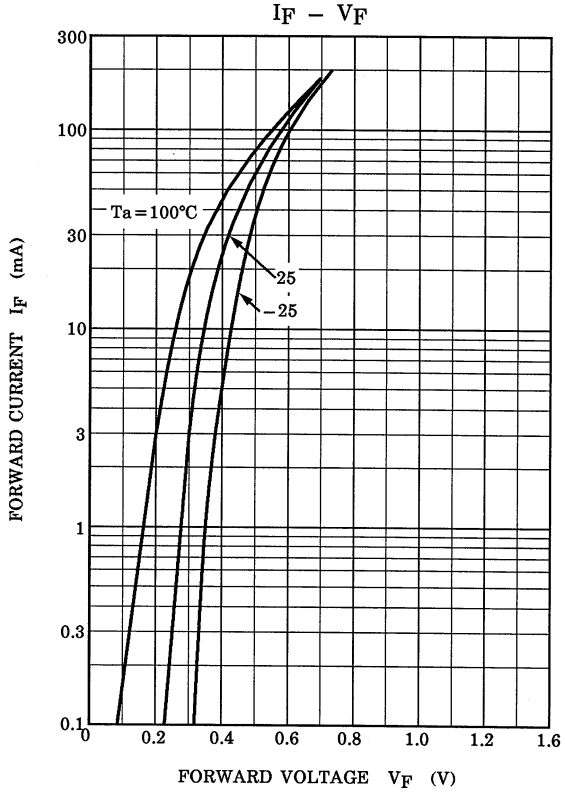
Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Typ.	Max	Unit
Forward voltage	$V_{F\ (1)}$	—	I_F = 1mA	—	0.28	—	V
	$V_{F\ (2)}$	—	I_F = 10mA	—	0.36	—	
	$V_{F\ (3)}$	—	I_F = 100mA	—	0.54	0.60	
Reverse current	I_R	—	V_R = 40V	—	—	5	μA
Total capacitance	C_T	—	V_R = 0, f = 1MHz	—	18	25	pF

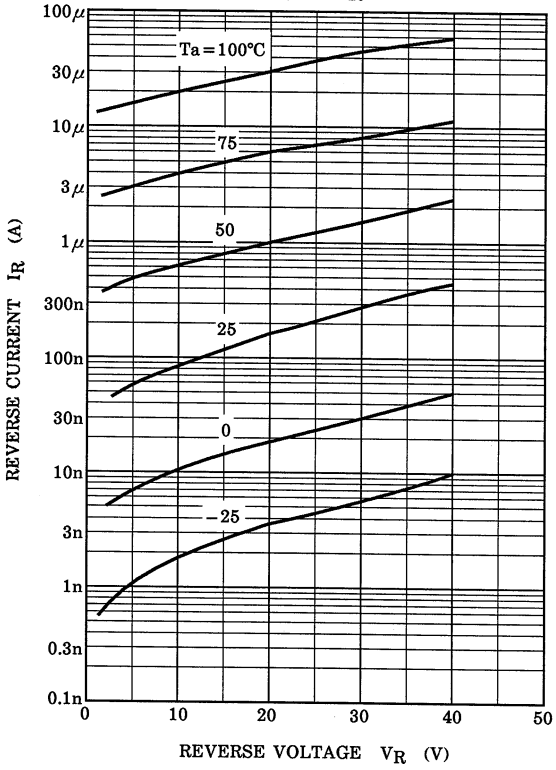
Marking



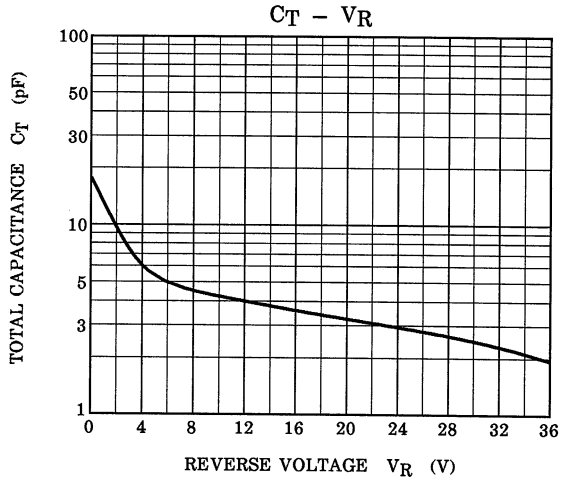
$I_F - V_F$



$I_R - V_R$



$C_T - V_R$



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