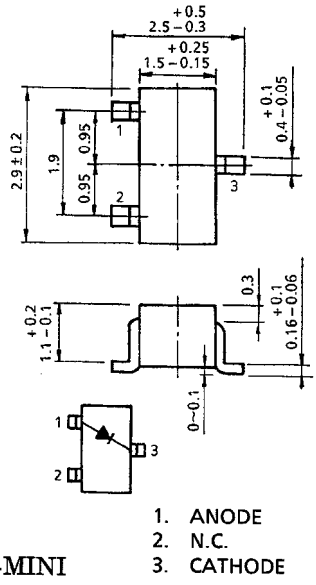
TOSHIBA Diode Silicon Epitaxial Schottky Planar Type

1SS349

Ultra High Speed Switching Application

Unit: mm

- Low forward voltage : $V_{F\ (3)}$ = 0.49V (typ.)
- Low reverse current : I_R = 50μA (max)
- Small package : SC−59



JEDEC	TD−236MOD
EIAJ	SC−59
TOSHIBA	1−3G1B

Weight: 0.012g

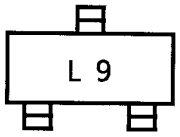
Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse voltage	V_{RM}	25	V
Reverse voltage	V_R	20	V
Maximum (peak) forward current	I_{FM}	3000	mA
Average forward current	I_O	1000	mA
Power dissipation	P	200	mW
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	−55~125	°C
Operating Temperature	T_{opr}	−40~100	°C

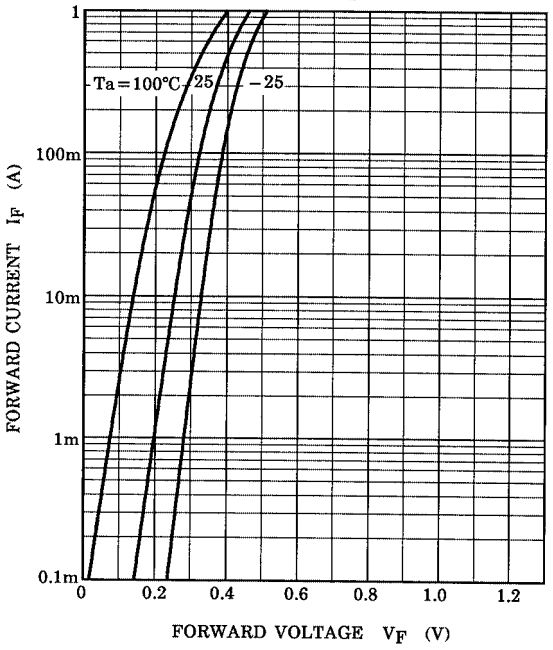
Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Typ.	Max	Unit
Forward voltage	$V_{F\ (1)}$	—	I_F = 100mA	—	0.34	—	V
	$V_{F\ (2)}$	—	I_F = 500mA	—	0.42	—	
	$V_{F\ (3)}$	—	I_F = 1000mA	—	0.49	0.55	
Reverse current	$I_{R\ (1)}$	—	V_R = 20V	—	—	50	μA
Total capacitance	C_T	—	V_R = 0, f = 1MHz	—	250	—	pF

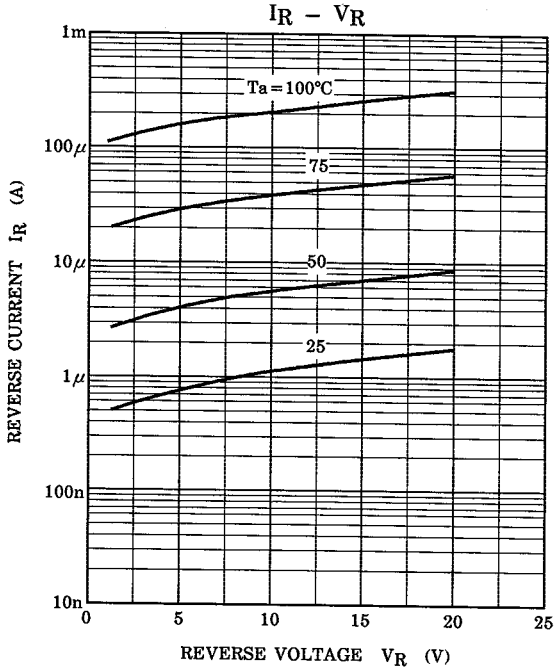
Marking



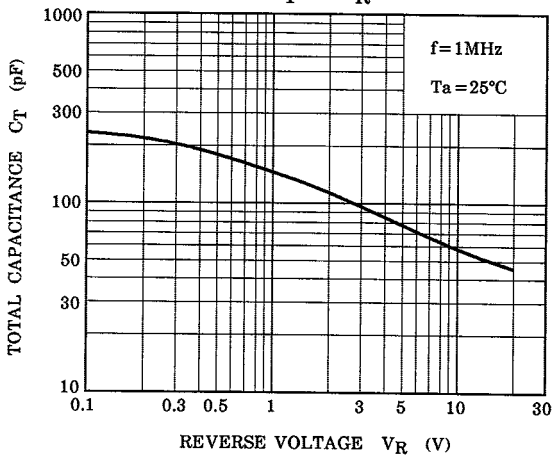
$I_F - V_F$



$I_R - V_R$



$C_T - V_R$



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