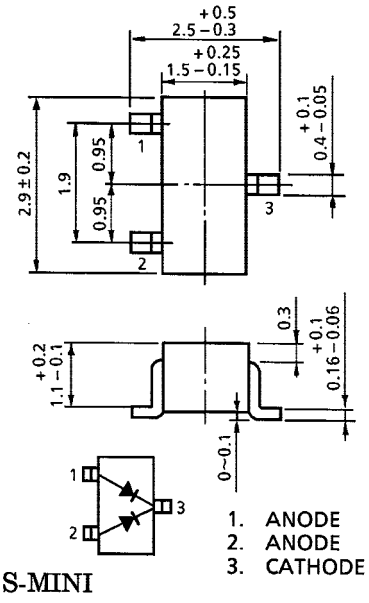
TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS392

High Speed Switching Application

Unit: mm

- Low forward voltage : $V_{F\ (3)}$ = 0.54V (typ.)
- Low reverse current : I_R = 5μA (max)
- Small package : SC-59



JEDEC	TO-236MOD
EIAJ	SC-59
TOSHIBA	1-3G1F

Weight: 0.012g

Maximum Ratings (Ta = 25°C)

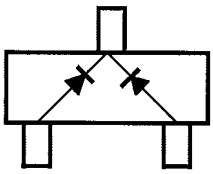
Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse Voltage	V_{RM}	45	V
Reverse voltage	V_R	40	V
Maximum (peak) forward current	I_{FM}	300 *	mA
Average forward current	I_O	100 *	mA
Surge current (10ms)	I_{FSM}	1 *	A
Power dissipation	P	150	mW
Junction temperature	T_j	125	°C
Storage temperature range	T_{stg}	−55~125	°C
Operating temperature range	T_{opr}	−40~100	°C

* : Unit rating. Total rating = unit rating × 1.5

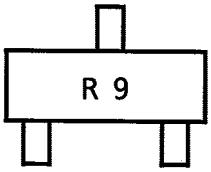
Electrical Characteristics (Ta = 25°C)

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

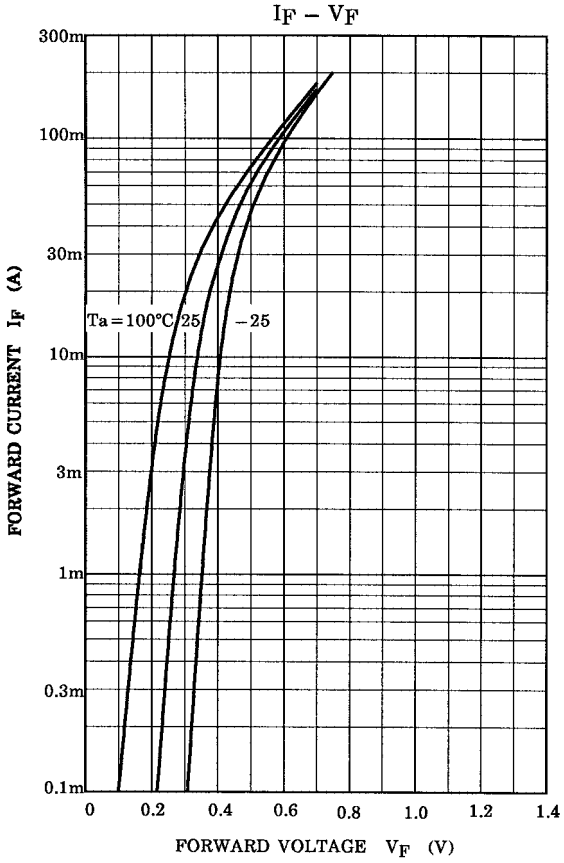
Equivalent Circuit (Top View)



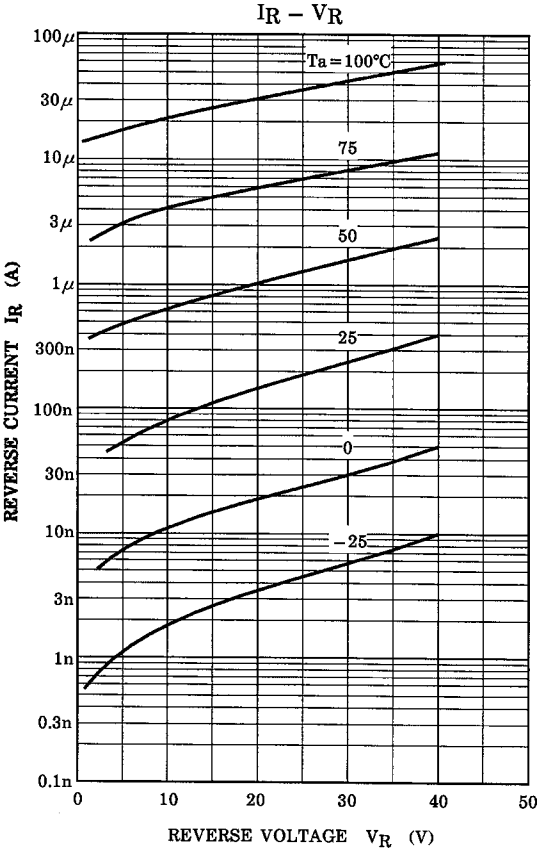
Marking



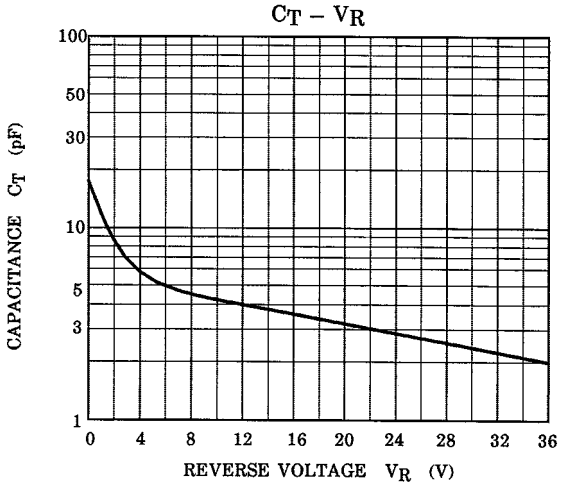
$I_F - V_F$



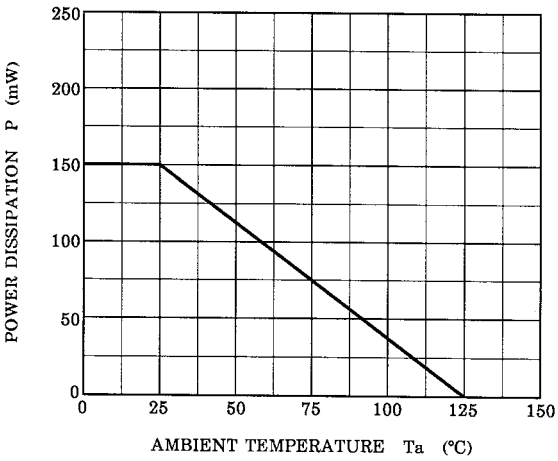
$I_R - V_R$



$C_T - V_R$



P – Ta



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