

TOSHIBA Diode Silicon Epitaxial Schottoky Barrier Type

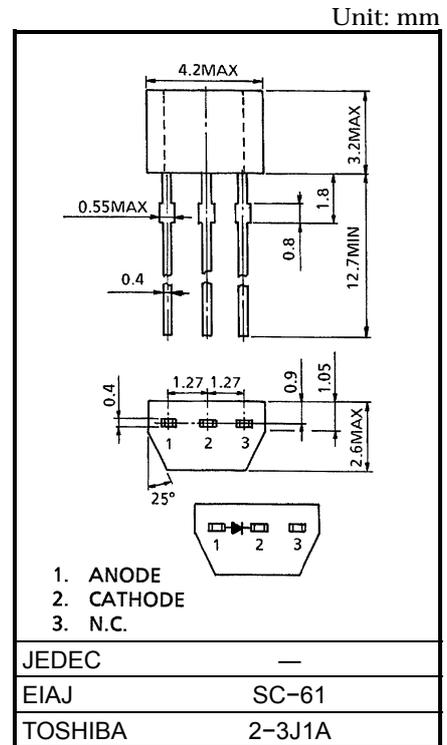
# 1SS293

Low Voltage High Speed Switching

- Low forward voltage :  $V_F(3) = 0.54V$  (typ.)
- Low reverse current :  $I_R = 5\mu A$  (max)
- Small package

## Maximum Ratings (Ta = 25°C)

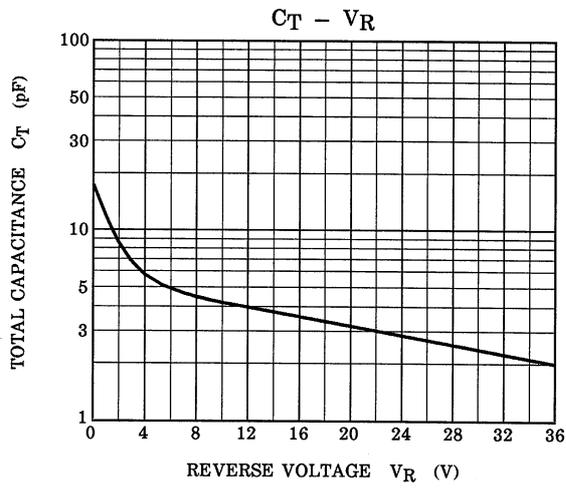
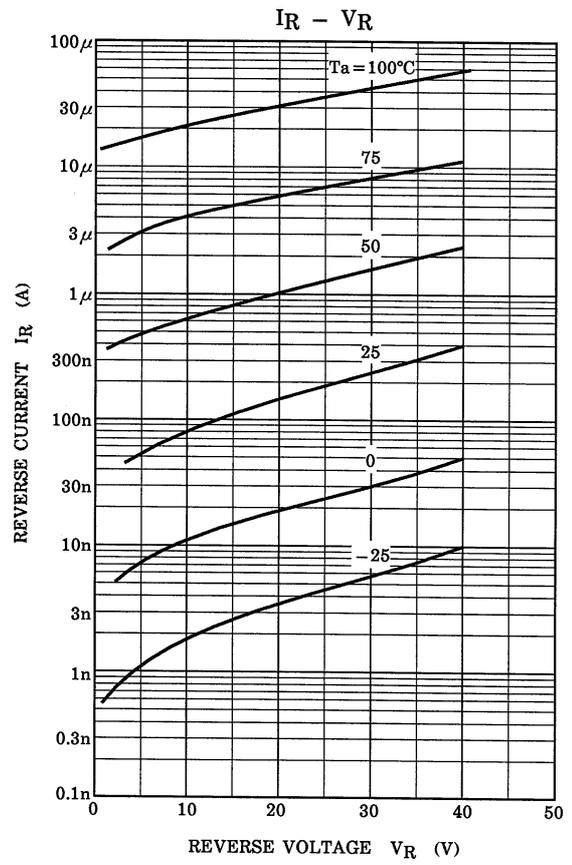
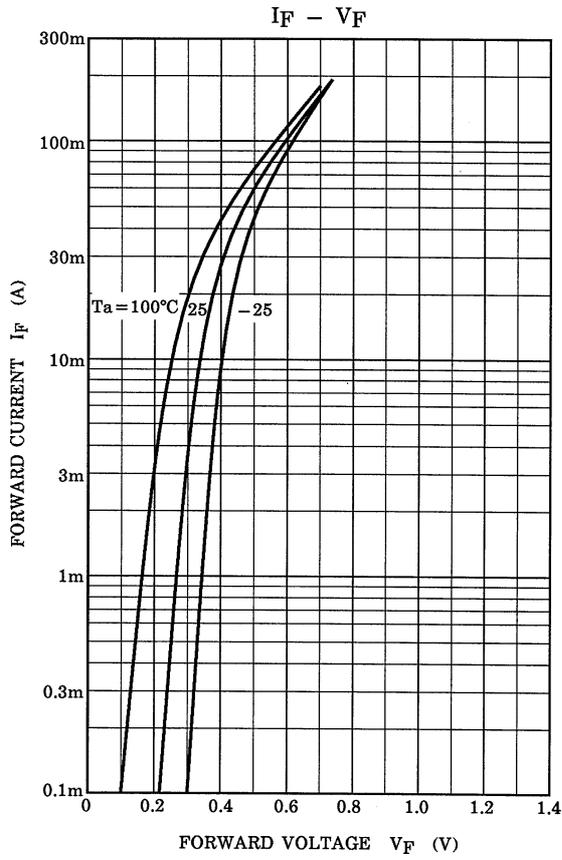
Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse voltage	$V_{RM}$	45	V
Reverse voltage	$V_R$	40	V
Maximum (peak) forward current	$I_{FM}$	300	mA
Average forward current	$I_O$	100	mA
Power dissipation	P	300	mW
Junction temperature	$T_j$	125	°C
Storage temperature range	$T_{stg}$	-55~125	°C



## Electrical Characteristics (Ta = 25°C)

Weight: 0.13g

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	$\mu A$
Total capacitance	$C_T$	—	$V_R = 0, f = 1MHz$	—	18	25	pF



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