

TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

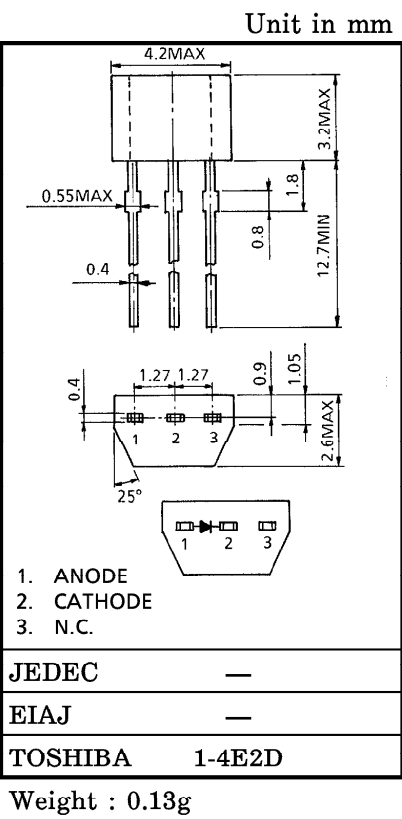
1SS293

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

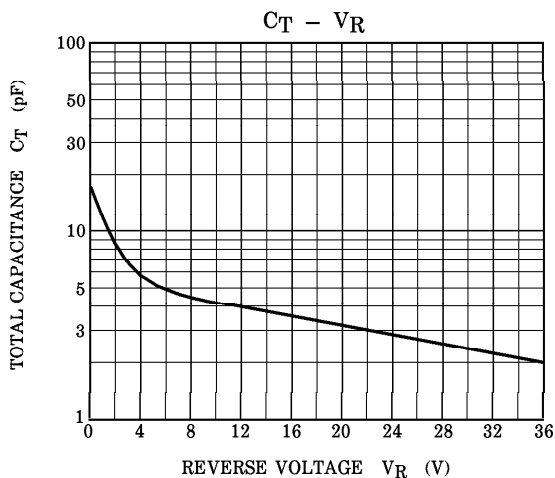
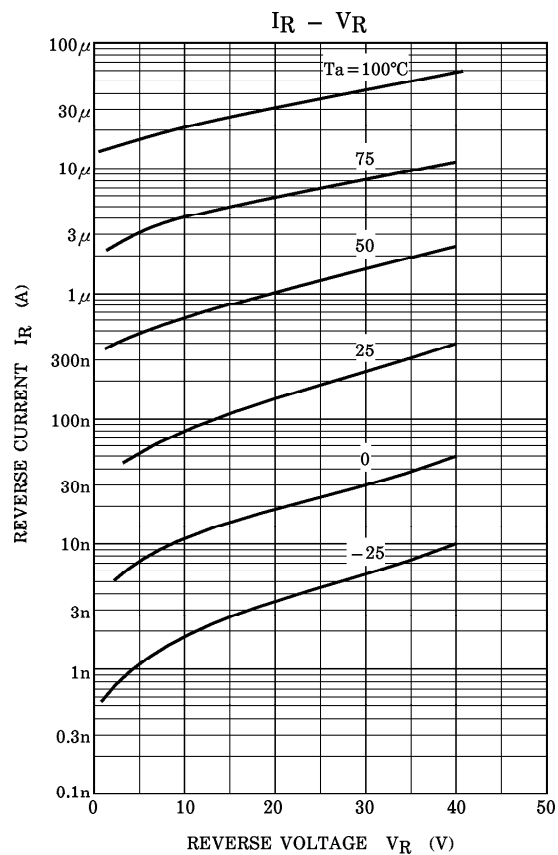
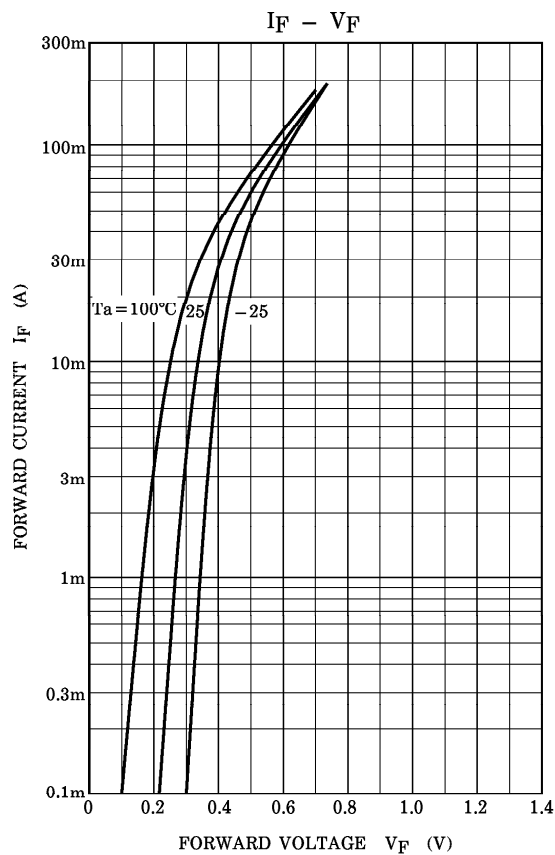


ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	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

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