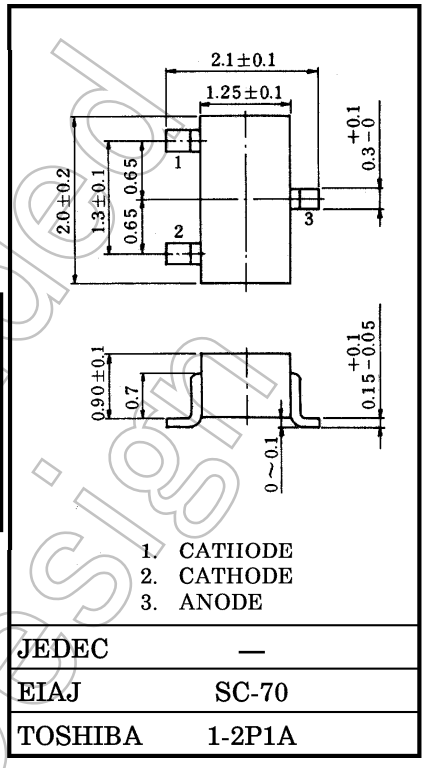
TOSHIBA DIODE SILICON EPITAXIAL PLANAR TYPE

1SS313

VHF TUNER BAND SWITCH APPLICATIONS.

Unit in mm

- Small Package.
- Small Total Capacitance : $C_T = 1.2pF$ (Max.)
- Low Series Resistance : $r_S = 0.6\Omega$ (Typ.)



JEDEC	—
EIAJ	SC-70
TOSHIBA	1-2P1A

Weight : 0.006g

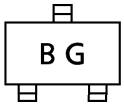
MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	V_R	30	V
Forward Current	I_F	50	mA
Junction Temperature	T_j	125	°C
Storage Temperature Range	T_{stg}	−55~125	°C

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

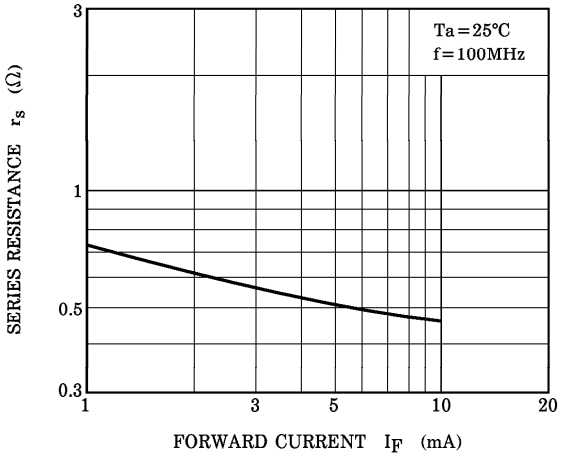
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	V_F	$I_F = 2mA$	—	—	0.85	V
Reverse Current	I_R	$V_R = 15V$	—	—	0.1	μA
Reverse Voltage	V_R	$I_R = 1\mu A$	30	—	—	V
Total Capacitance	C_T	$V_R = 6V$, f = 1MHz	—	0.8	1.2	pF
Series Resistance	r_S	$I_F = 2mA$, f = 100MHz	—	0.6	0.9	Ω

Marking

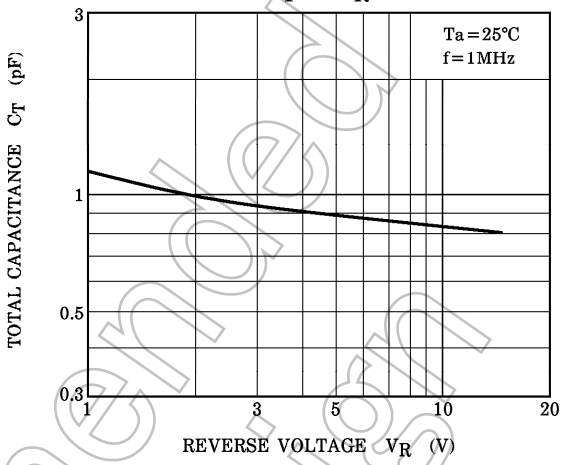


Not Recommended for New Design

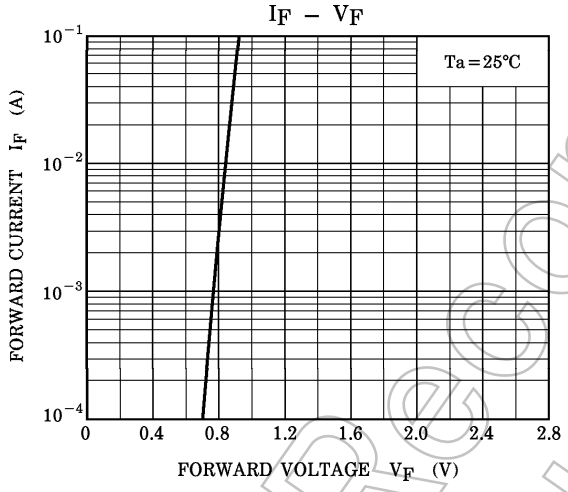
$r_S - I_F$



$C_T - V_R$



$I_F - V_F$



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