

TOSHIBA DIODE SILICON EPITAXIAL PIN TYPE

# 1SV128

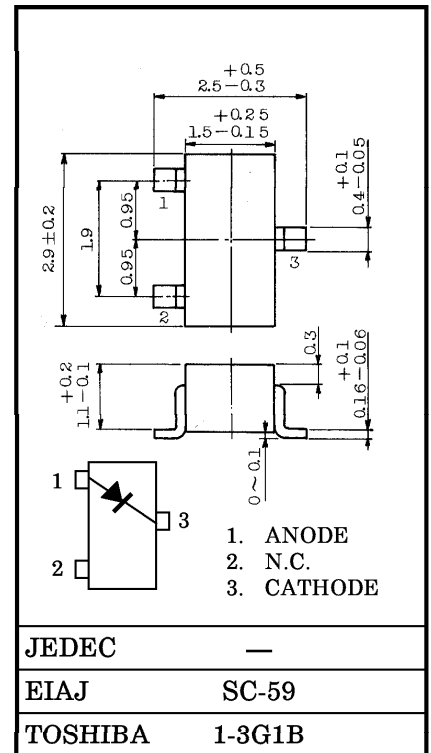
VHF~UHF BAND RF ATTENUATOR APPLICATIONS.

Unit in mm

- Small Package
- Small Total Capacitance :  $C_T = 0.25\text{pF}$  (Typ.)

MAXIMUM RATINGS ( $T_a = 25^\circ\text{C}$ )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	$V_R$	50	V
Forward Current	$I_F$	50	mA
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55~125	$^\circ\text{C}$

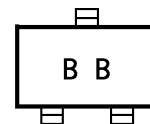


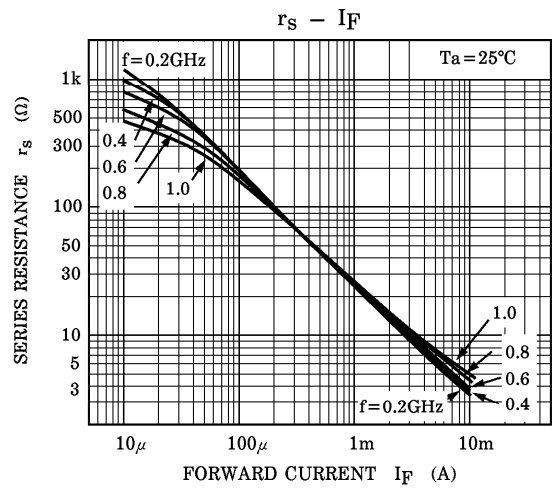
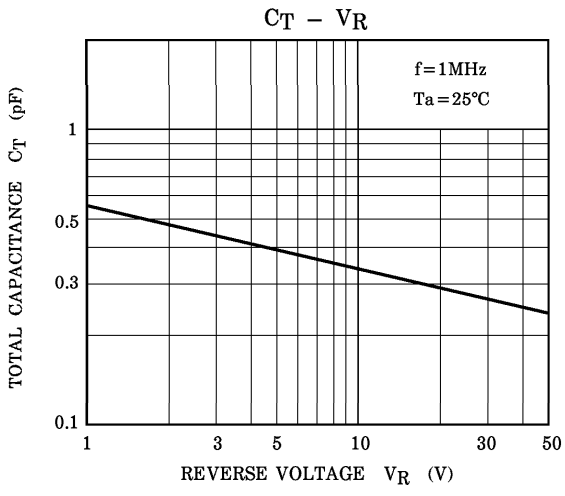
Weight : 0.012g

ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ\text{C}$ )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	$V_R$	$I_R = 10\mu\text{A}$	50	—	—	V
Reverse Current	$I_R$	$V_R = 50\text{V}$	—	—	0.1	$\mu\text{A}$
Forward Voltage	$V_F$	$I_F = 50\text{mA}$	—	0.95	—	V
Total Capacitance	$C_T$	$V_R = 50\text{V}, f = 1\text{MHz}$	—	0.25	—	pF
Series Resistance	$r_s$	$I_F = 10\text{mA}, f = 100\text{MHz}$	—	3	—	$\Omega$
Minority Carrier Life Time	$\tau$	$I_F = 10\text{mA}, I_R = 6\text{mA}$	—	400	—	ns

Marking





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