

**TOSHIBA**

**1SV128**

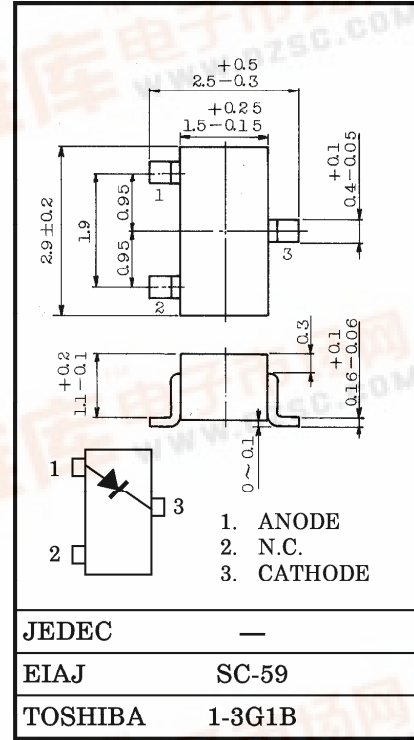
TOSHIBA DIODE SILICON EPITAXIAL PIN TYPE

# 1SV128

VHF~UHF BAND RF ATTENUATOR APPLICATIONS.

Unit in mm

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



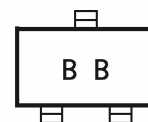
MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	$V_R$	50	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
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	$r_s$	$I_F=10\text{mA}, f=100\text{MHz}$	—	7	—	$\Omega$
Minority Carrier Life Time	$\tau$	$I_F=10\text{mA}, I_R=6\text{mA}$	—	400	—	ns

Marking



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