

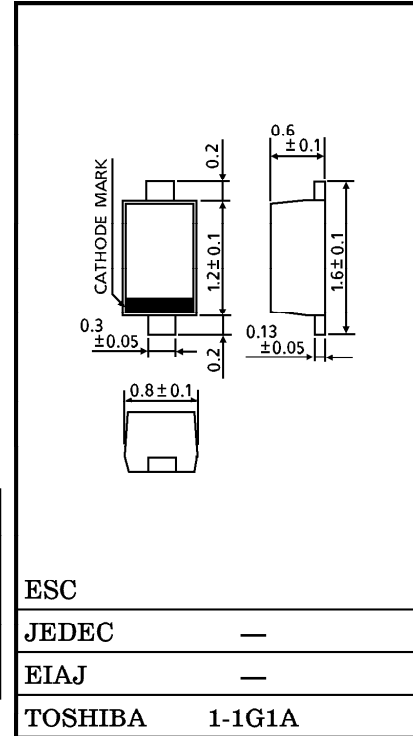
TOSHIBA DIODE SILICON EPITAXIAL PIN TYPE

# 1SV308

VHF TUNER BAND SWITCH APPLICATIONS

Unit in mm

- Small Package
- Low Series Resistance :  $r_s = 1.1\Omega$  (Typ.)
- Small Total Capacitance :  $C_T = 0.3\text{pF}$  (Typ.)



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
Reverse Voltage	$V_R$	$I_R = 10\mu A$	30	—	—	V
Reverse Current	$I_R$	$V_R = 30V$	—	—	0.1	$\mu A$
Forward Voltage	$V_F$	$I_F = 50mA$	—	0.95	1.0	V
Total Capacitance	$C_T$	$V_R = 1V, f = 1MHz$	—	0.3	0.5	pF
Series Resistance	$r_s$	$I_F = 10mA, f = 1.5GHz$	—	1.1	—	$\Omega$

MARKING



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