

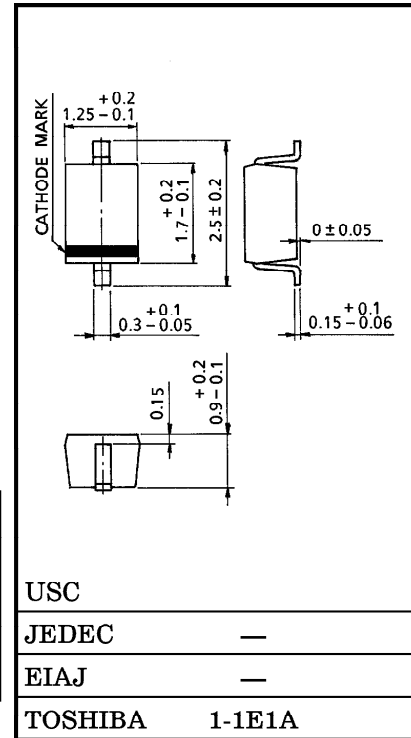
TOSHIBA DIODE SILICON EPITAXIAL PIN TYPE

1SV307

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	μA
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	—	Ω

MARKING



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