

TOSHIBA DIODE SILICON EPITAXIAL PLANAR TYPE

1SS381

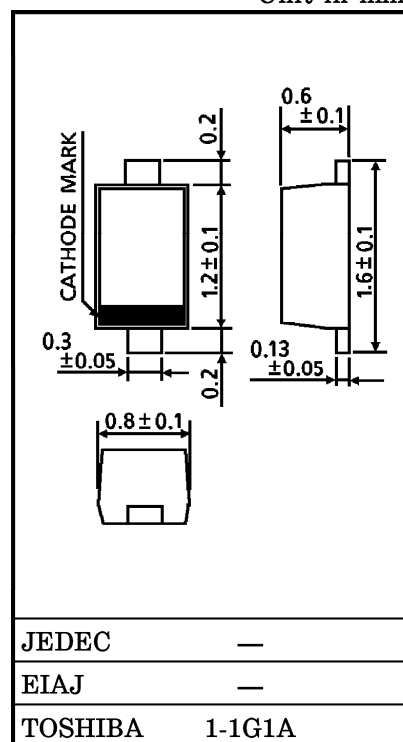
VHF TUNER BAND SWITCH APPLICATIONS

Unit in mm

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

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	V_R	30	V
Forward Current	I_F	100	mA
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	$-55 \sim 125$	$^\circ\text{C}$



Weight : 0.0014 g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	V_F	$I_F = 2 \text{ mA}$	—	—	0.85	V
Reverse Current	I_R	$V_R = 15 \text{ V}$	—	—	0.1	μA
Reverse Voltage	V_R	$I_R = 1 \mu\text{A}$	30	—	—	V
Total Capacitance	C_T	$V_R = 6 \text{ V}, f = 1 \text{ MHz}$	—	0.7	1.2	pF
Series Resistance	r_s	$I_F = 2 \text{ mA}, f = 100 \text{ MHz}$	—	0.6	0.9	Ω

MARKING



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