

TOSHIBA DIODE SILICON EPITAXIAL PLANAR TYPE

# 1SS381

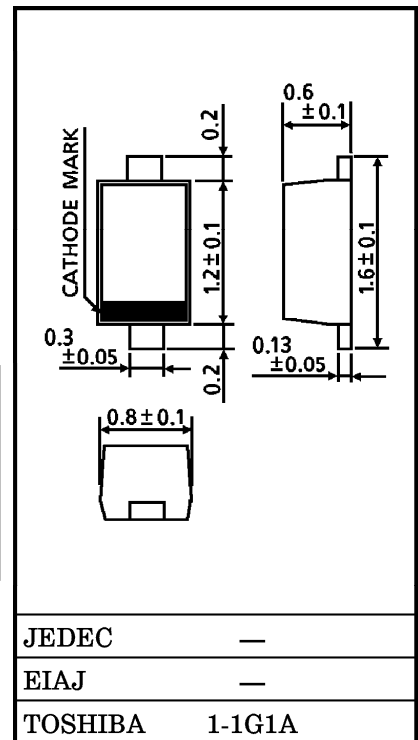
VHF TUNER BAND SWITCH APPLICATIONS

Unit in mm

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

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	$T_{stg}$	-55~125	$^\circ\text{C}$



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	$\mu\text{A}$
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	$\Omega$

MARKING



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