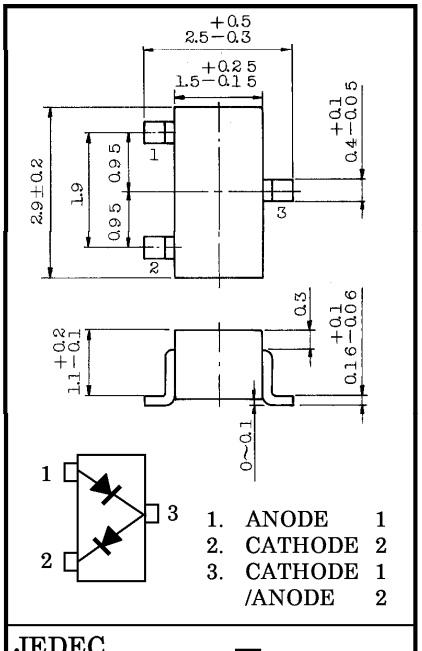
TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

1SS271

VHF~UHF MIXER APPLICATION

Unit in mm

- Small Package
- Small Delta Forward Voltage : $\Delta V_F = 10mV$ (Max.)
- Small Delta Total Capacitance : $\Delta C_T = 0.1pF$ (Max.)



JEDEC	—
EIAJ	SC-59
TOSHIBA	1-3G1G

Weight : 0.013g

MAXIMUM RATINGS (Ta = 25°C)

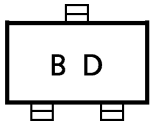
CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	V_R	6	V
Forward Current	I_F	30	mA
Junction Temperature	T_j	125	°C
Storage Temperature Range	T_{stg}	−55~125	°C

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

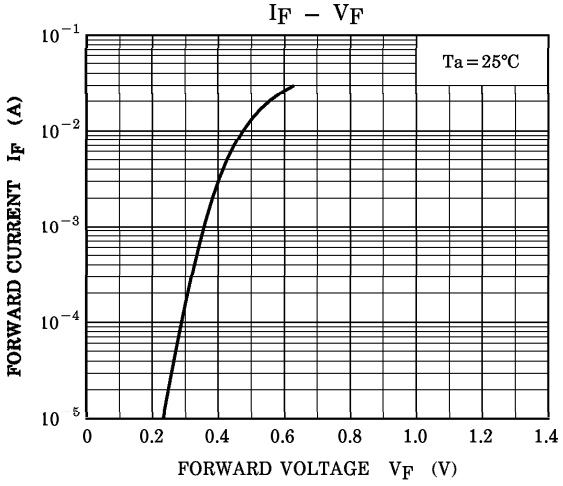
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	V_R	$I_R = 10\mu A$	6	—	—	V
Reverse Current	I_R	$V_R = 5V$	—	—	0.5	μA
Forward Voltage	V_F (1)	$I_F = 0.1mA$	—	0.3	—	V
Forward Voltage	V_F (2)	$I_F = 10mA$	0.42	0.5	0.55	V
Total Capacitance	C_T	$V_R = 0V$, f = 1MHz	—	0.8	1.0	pF
Delta Forward Voltage	ΔV_F	$I_F = 10mA$ (Note)	—	—	10	mV
Delta Total Capacitance	ΔC_T	$V_R = 0V$, f = 1MHz (Note)	—	—	0.1	pF

(Note) : Difference between 2 Devices in 1 Package.

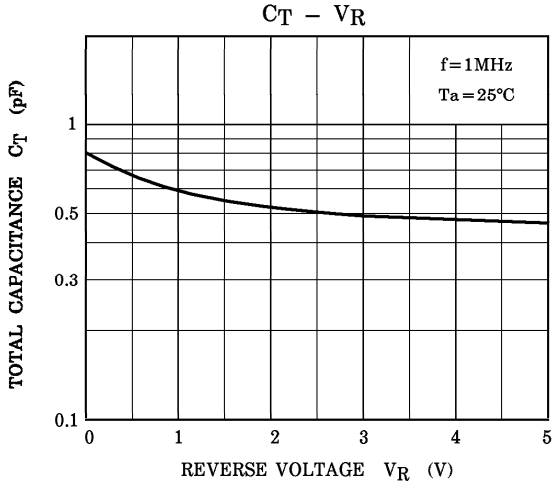
Marking



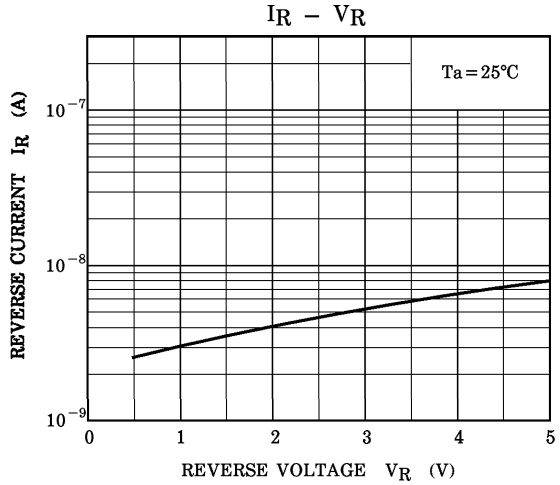
$I_F - V_F$



$C_T - V_R$



$I_R - V_R$



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