

9097250 TOSHIBA (DISCRETE/OPTO)

67C 09310

D

T-07-15

Silicon Epitaxial Planar Type

Diode

**1S2186**

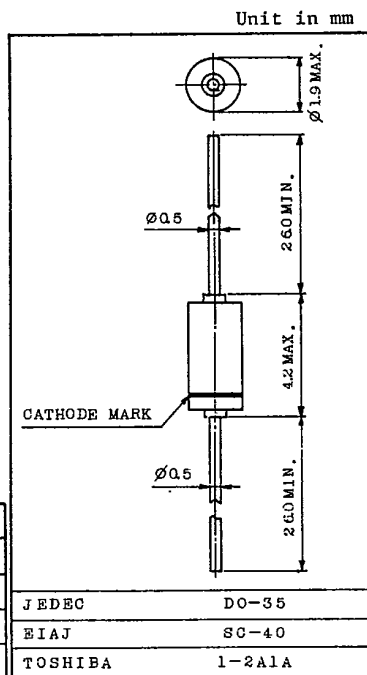
VHF TUNER BAND SWITCH APPLICATIONS.

## FEATURES:

- . Small Total Capacitance:  $C_T=2\text{pF}$  (Max.)
- . Low Series Resistance :  $r_s=1.0\Omega$  (Max.)

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	$V_R$	20	V
Forward Current	$I_F$	100	mA
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 ~ 150	$^\circ\text{C}$



Weight : 0.14g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_F$	$I_F=100\text{mA}$	-	-	1.0	V
Reverse Current	$I_R$	$V_R=15\text{V}$	-	-	0.1	$\mu\text{A}$
Reverse Voltage	$V_R$	$I_R=1\mu\text{A}$	20	-	-	V
Total Capacitance	$C_T$	$V_R=10\text{V}$ , $f=1\text{MHz}$	-	-	2	pF
Series Resistance (Note)	$r_s$	$I_F=10\text{mA}$ , $f=100\text{MHz}$	-	0.5	1.0	$\Omega$

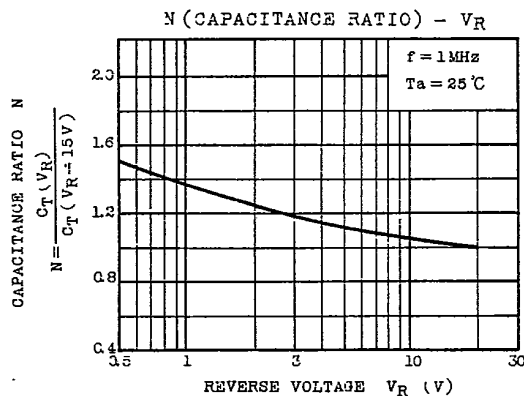
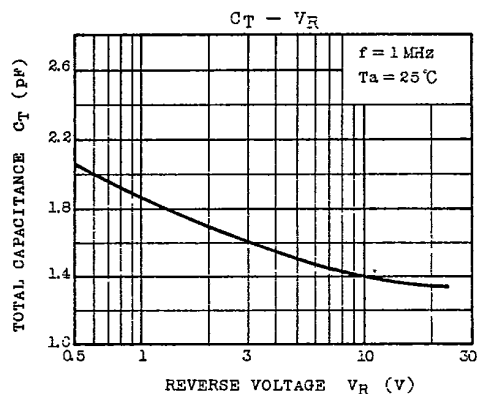
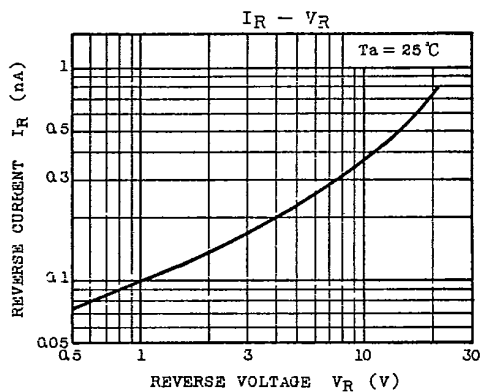
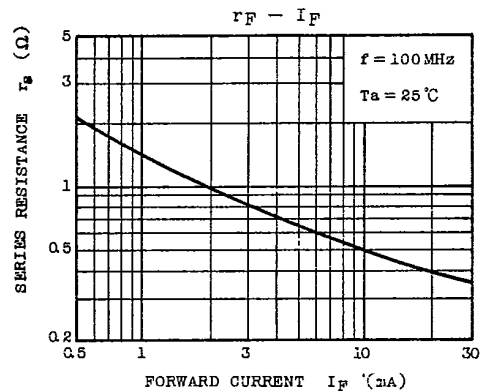
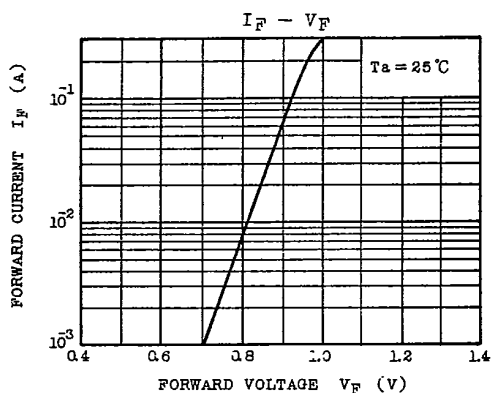
Note :  $r_s$  Classification GR :  $0.6\Omega$  MAX. BK :  $1.0\Omega$  Max.

TOSHIBA CORPORATION

9097250 TOSHIBA (DISCRETE/OPTO)

67C 09311

D T-07-15

**1S2186**

TOSHIBA CORPORATION