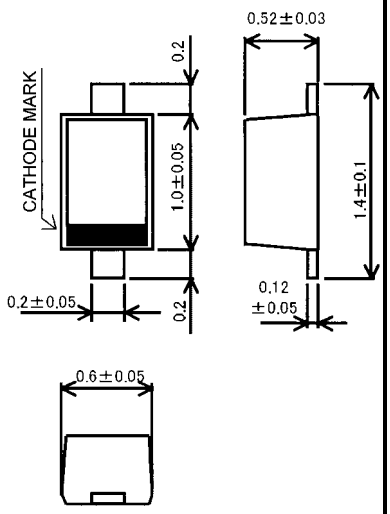
TOSHIBA Diode Silicon Epitaxial Planar Type

JDS2S03S

VHF Tuner Band Switch Applications

Unit: mm

- Suitable for reducing set's size as a result from enabling high-density mounting due to 2-pin small packages.
- Small total capacitance: C_T = 0.7 pF (typ.)
- Low series resistance: r_s = 0.6 Ω (typ.)



sESC

JEDEC	—
JEITA	—
TOSHIBA	1-1K1A

Weight: 0.0011 g

Maximum Ratings (Ta = 25°C)

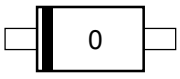
Characteristics	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Forward current	I_F	100	mA
Junction temperature	T_j	150	°C
Storage temperature range	T_{stg}	−55~150	°C

Electrical Characteristics (Ta = 25°C)

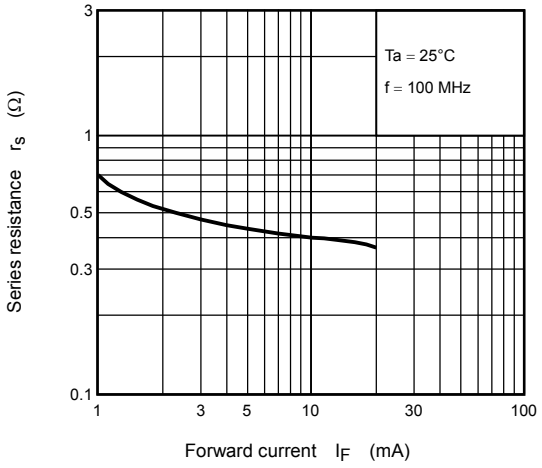
Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Forward voltage	V_F	I_F = 2 mA	—	—	0.85	V
Reverse current	I_R	V_R = 15 V	—	—	0.1	μA
Reverse voltage	V_R	I_R = 1 μA	30	—	—	V
Total capacitance	C_T	V_R = 6 V, f = 1 MHz	—	0.7	1.2	pF
Series resistance	r_s	I_F = 2 mA, f = 100 MHz	—	0.6	0.9	Ω

Note: Signal level when capacitance is measured: V_{sig} = 20 mVrms

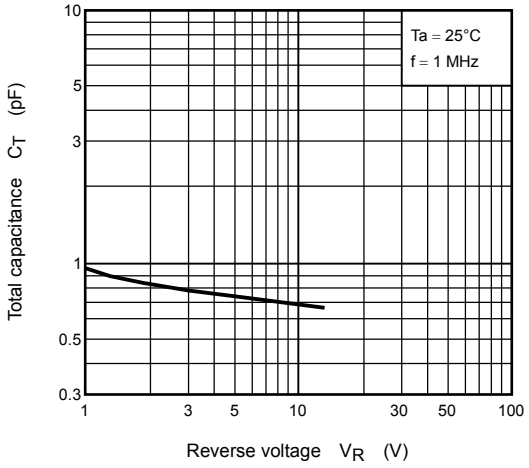
Marking



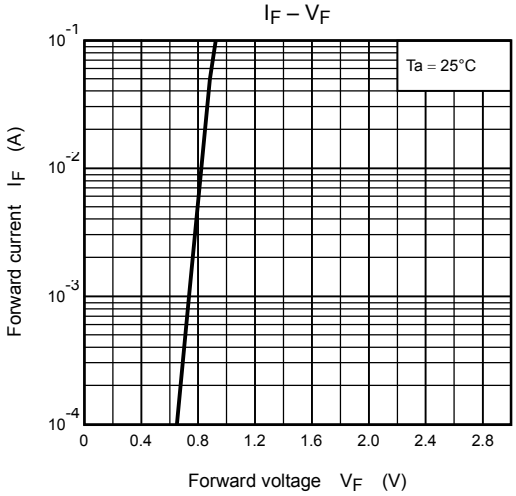
$r_s - I_F$



$C_T - V_R$



$I_F - V_F$



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