

TOSHIBA Diode Silicon Epitaxial PIN Type

JDP3C02AU

UHF~VHF Band RF Switch Applications

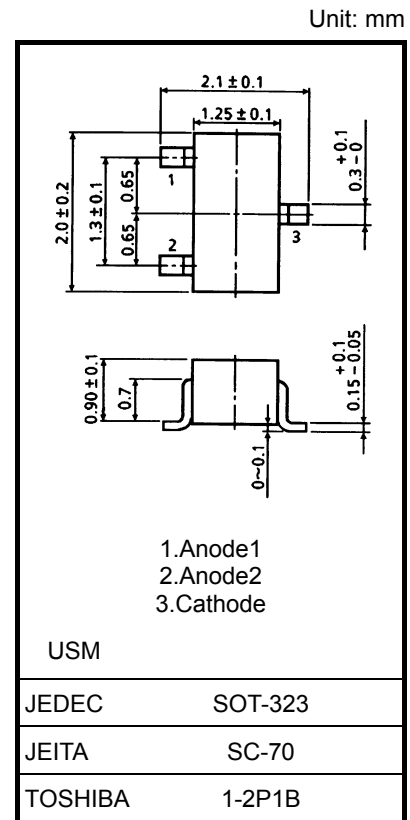
- Suitable for reducing set's size as a result from enabling high-density mounting due to 3-pin small packages.
- Low series resistance: $r_s = 1.0 \Omega$ (typ.)
- Low capacitance: $C_T = 0.28 \text{ pF}$ (typ.)

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Forward current	I_F	50	mA
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature range	T_{stg}	-55 to 150	$^\circ\text{C}$

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).



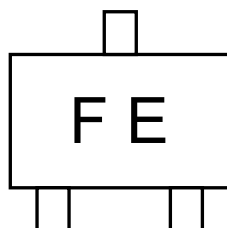
Weight: 6.3 mg (typ.)

Electrical Characteristics ($T_a = 25^\circ\text{C}$)

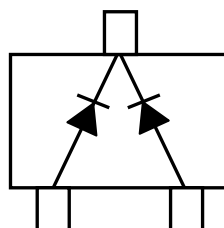
Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Reverse voltage	V_R	$I_R = 10 \mu\text{A}$	30	—	—	V
Reverse current	I_R	$V_R = 30 \text{ V}$	—	—	0.1	μA
Forward voltage	V_F	$I_F = 50 \text{ mA}$	—	0.89	0.98	V
Capacitance	C_T	$V_R = 1 \text{ V}, f = 1 \text{ MHz}$	—	0.28	0.48	pF
Series resistance	r_s	$I_F = 10 \text{ mA}, f = 100 \text{ MHz}$	—	1.0	1.5	Ω

Note: Signal level when capacitance is measured. $V_{\text{sig}} = 100 \text{ mV}_{\text{rms}}$

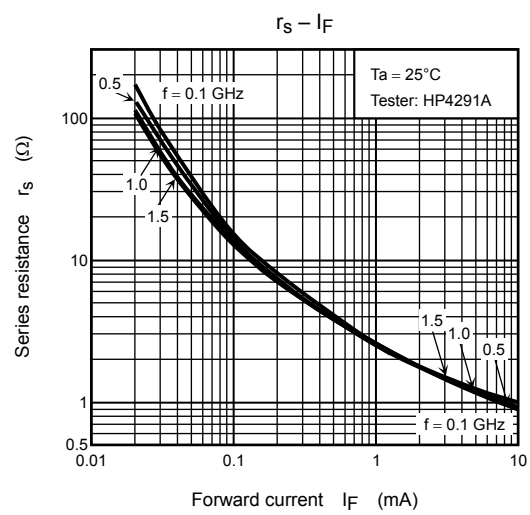
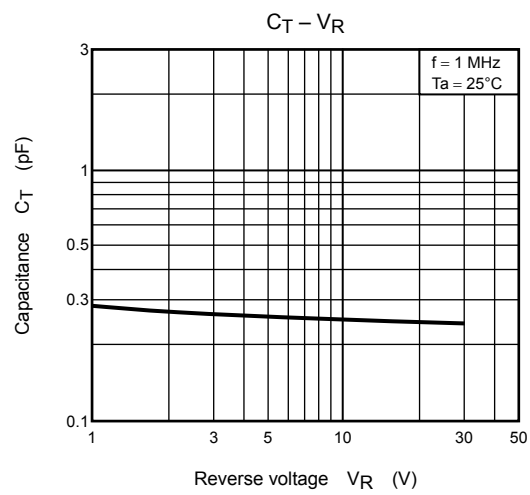
Marking



Pin Assignment



Start of commercial production
2008-11



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