

TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

JDH2S02FS

UHF Band Mixer

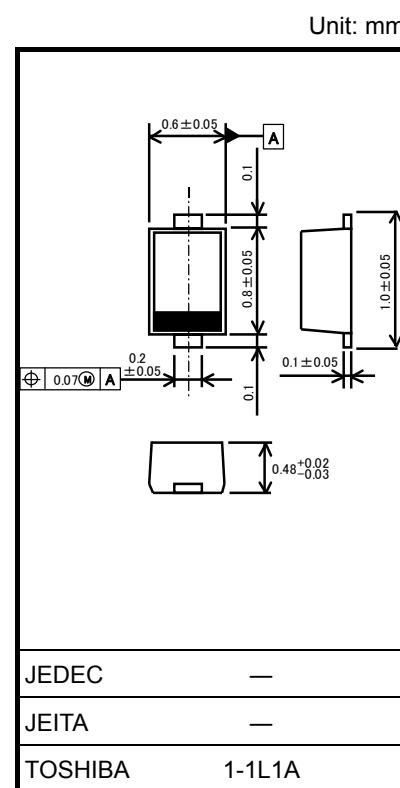
- Suitable for reducing set size through the use of a two-pin small package supporting high-density mounting

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

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse voltage	V_R	10	V
Forward current	I_F	10	mA
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature range	T_{stg}	$-55\sim 125$	$^\circ\text{C}$

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).



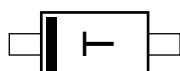
Weight: 0.0006 g (typ.)

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

Characteristic	Symbol	Test Condition	Min	Typ.	Max	Unit
Forward voltage	V_F	$I_F = 1\text{ mA}$	—	0.24	—	V
Forward current	I_F	$V_F = 0.5\text{ V}$	2	—	—	mA
Reverse current	I_R	$V_R = 0.5\text{ V}$	—	—	25	μA
Capacitance	C_T	$V_R = 0.2\text{ V}, f = 1\text{ MHz}$	—	0.3	—	pF

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

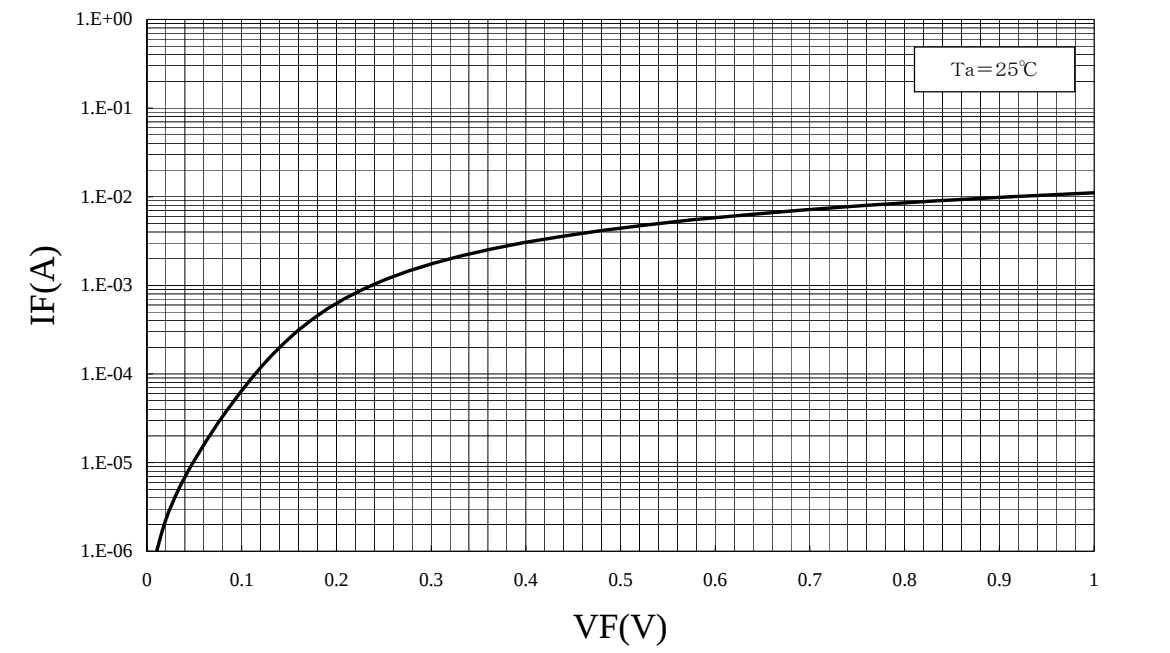
Marking



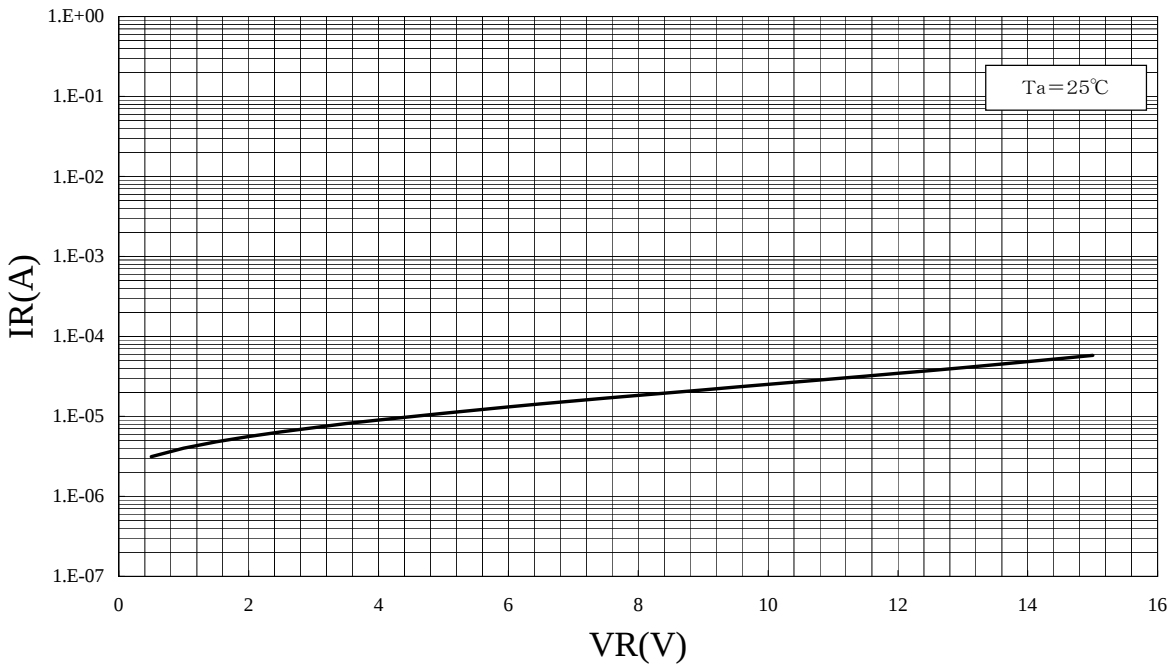
Caution

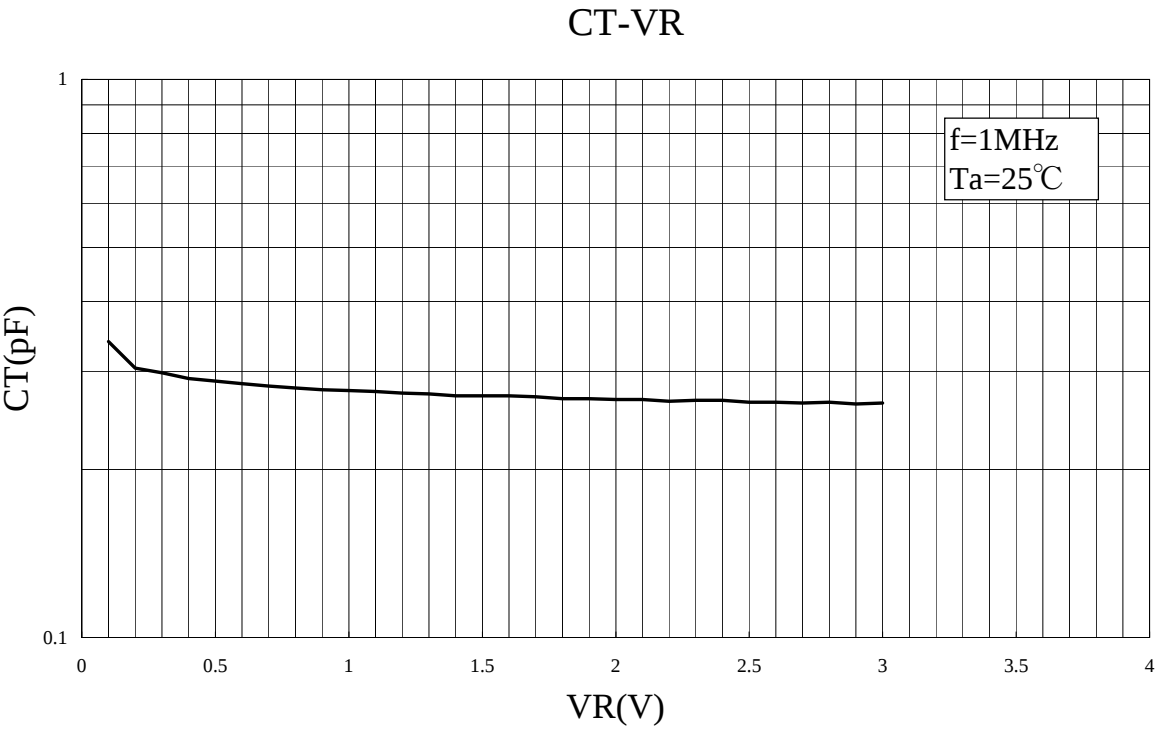
This device is sensitive to electrostatic discharge. Operators should wear antistatic clothing, and containers and other objects that come into direct contact with the product should be made of antistatic materials.

IF-VF



IR-VR





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