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SONY

1T369

Silicon Variable Capacitance Diode

Description

The 1T369 is a super miniature package variable capacitance diode for a wide-band CATV.

Features

- Super miniature package
- Small series resistance rs=1.0 Ω (Max.)
- Large capacitance ratio C_2/C_{25}=15.5 (Typ.)
- Capacitance deviation in a matching group 2.0 % (Max.)

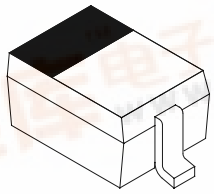
Applications

Electronic tuning of wide-band CATV

Structure

Silicon epitaxial planar type diode

M-235



Absolute Maximum Ratings (Ta=25 °C)

• Reverse voltage	V_R	34	V
• Operating temperature	Topr	–20 to +75	°C
• Storage temperature	Tstg	–65 to +150	°C

Electrical Characteristics (Ta=25 °C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse current	I_R	V_R=28 V			10	nA
Reverse voltage	V_R	I_R=1 µA	34			V
Diode capacitance	C_2	V_R=2 V, f=1 MHz	39.5	43.4	47.4	pF
	C_{25}	V_R=25 V, f=1 MHz	2.60	2.80	3.03	pF
Capacitance ratio	C_2/C_{25}		14.5	15.5	17.0	
Series resistance	rs	C_D=14 pF, f=470 MHz			1.0	Ω
Capacitance deviation in a matching group	ΔC	C2 to C25			2.0	%

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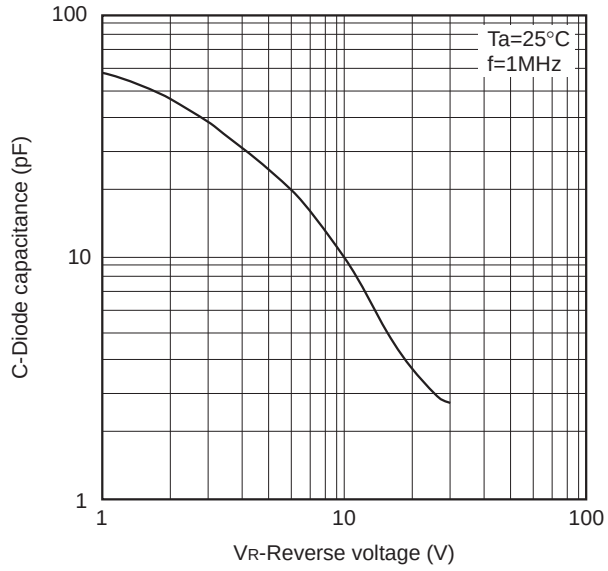
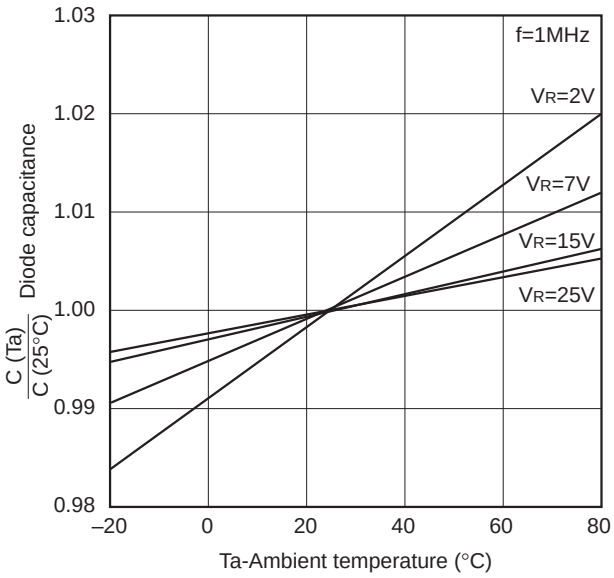
Example of Representative Characteristics

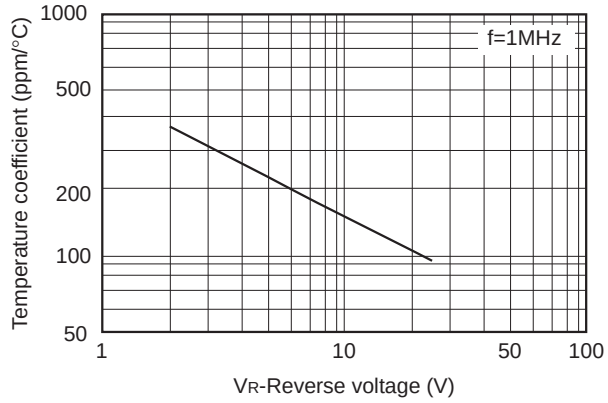
Diode capacitance vs. Reverse voltage



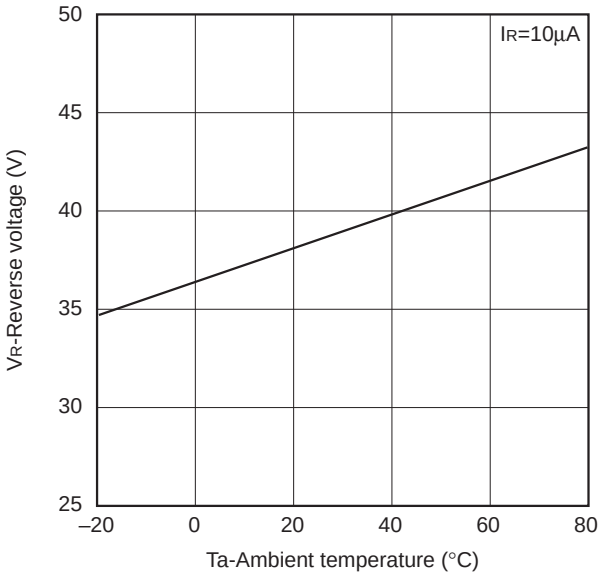
Diode capacitance vs. Ambient temperature



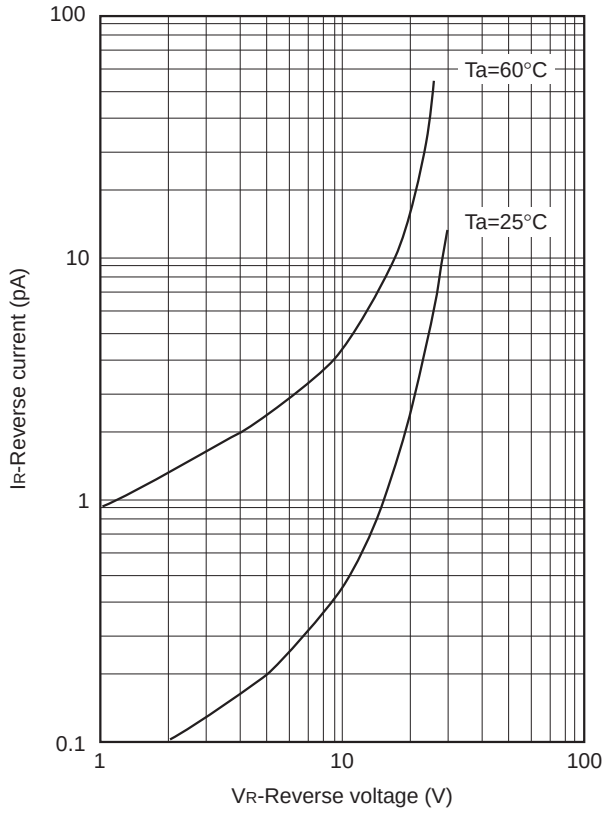
Temperature coefficient of diode capacitance



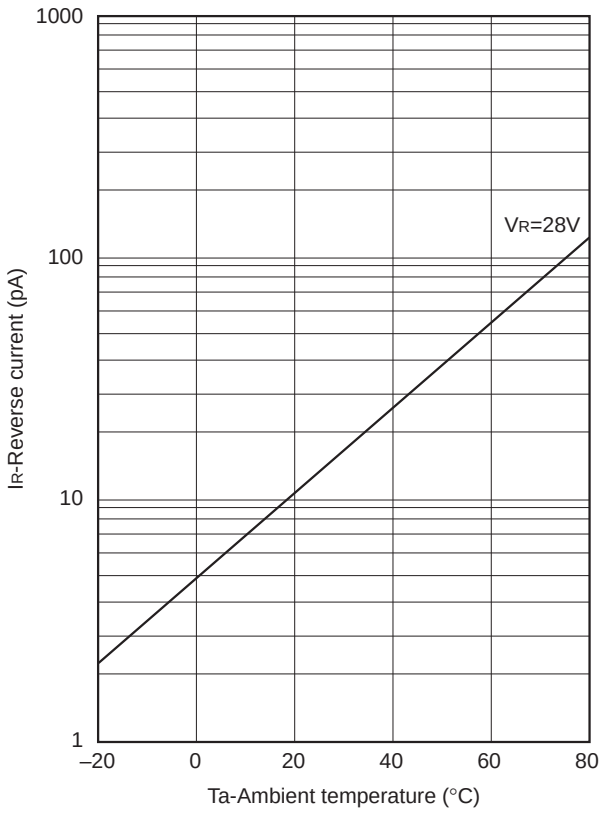
Reverse breakdown voltage vs. Ambient temperature



Reverse current vs. Reverse voltage

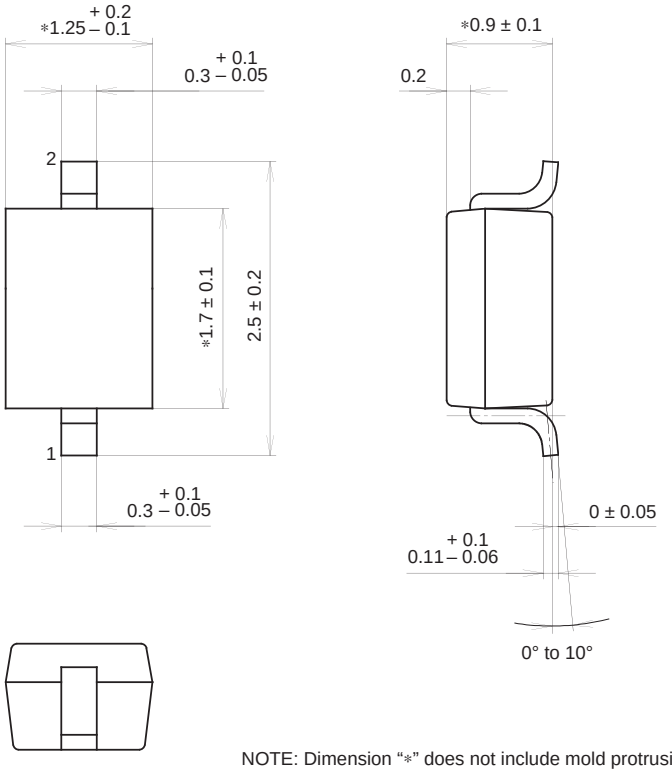


Reverse current vs. Ambient temperature



Package Outline Unit : mm

M-235

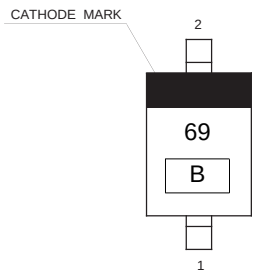


NOTE: Dimension "∗" does not include mold protrusion.

SONY CODE	M-235
EIAJ CODE	————
JEDEC CODE	————

PACKAGE WEIGHT	0.1g

Marking



Notes
1) B:Lot No.(Year and Month of manufacture)
Year;Last one digit
Month;A,B,C(for Oct. to Dec.)
1 to 9(for Jan.to Sept.)