

**UHF band VCO**

**Description**

The 1T367 is a variable capacitance diode housed in super miniature package, designed for UHF band VCO.

**Features**

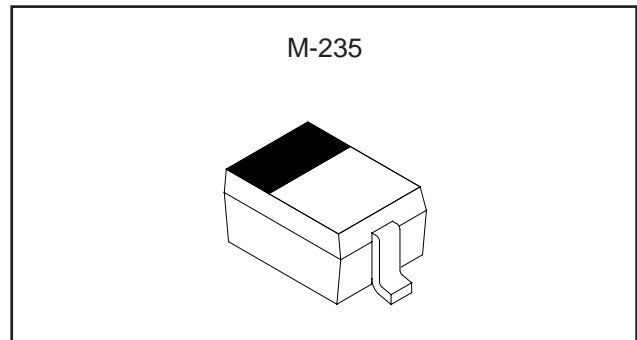
- Super miniature package
- Small series resistance  
rs=0.3 Ω (Typ.)

**Applications**

- UHF band VCO
- Local oscillator for telephone
- Local oscillator for cellular systems

**Structure**

Silicon epitaxial planar type diode



**Absolute Maximum Ratings (Ta=25 °C)**

- Reverse voltage           VR           15           V
- Operating temperature   Topr       -35 to +85   °C
- Storage temperature     Tstg      -65 to +150 °C

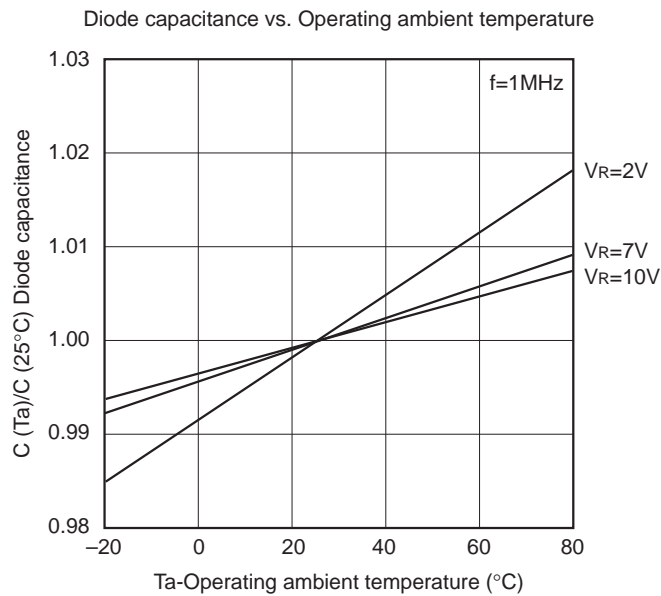
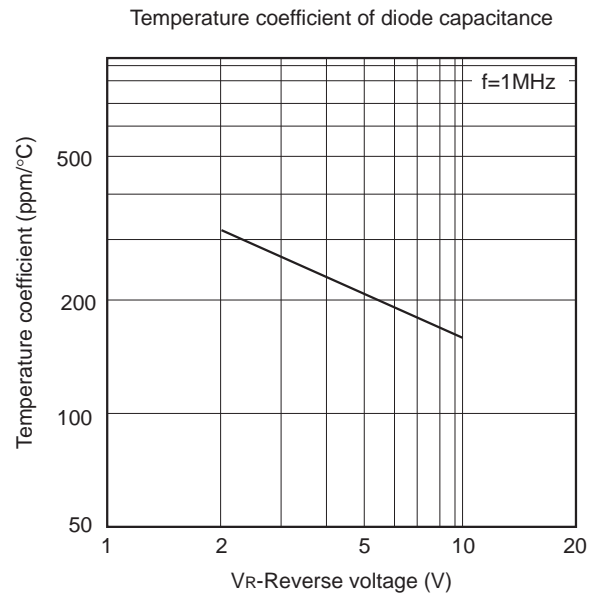
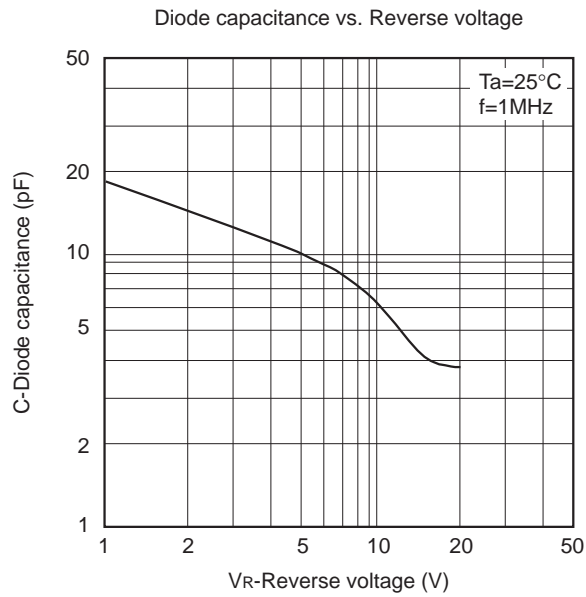
**Electrical Characteristics**

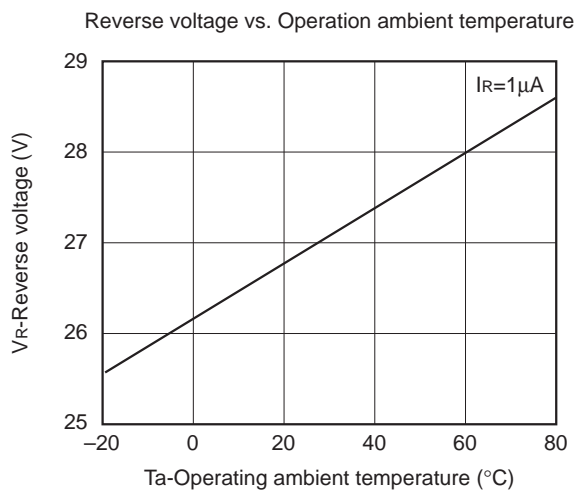
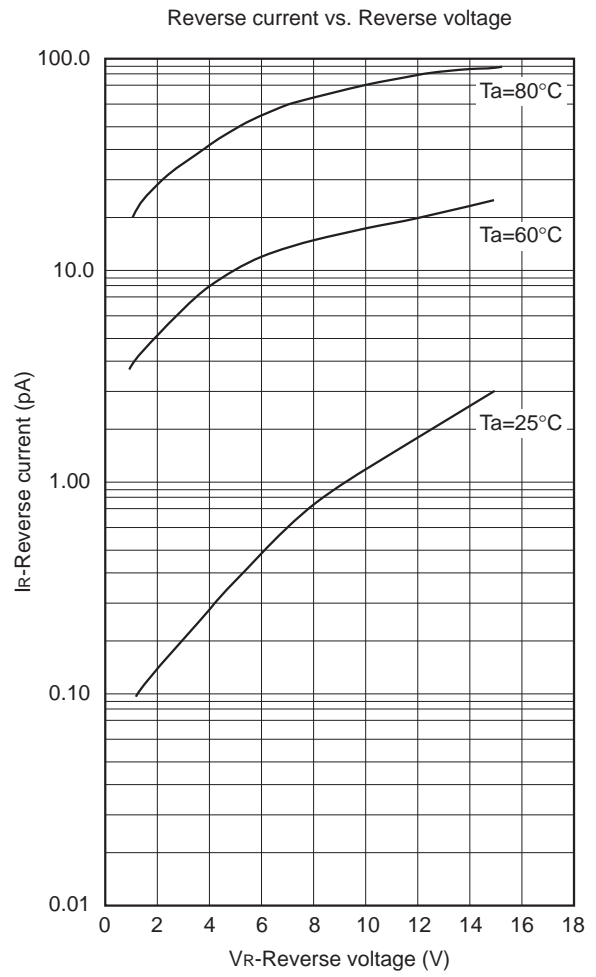
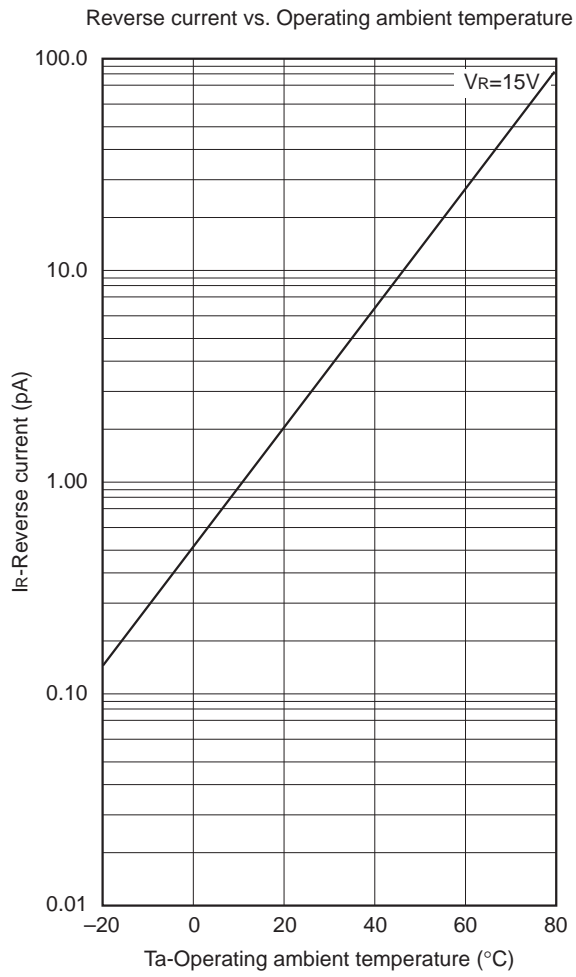
(Ta=25 °C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse current	IR	VR=15 V			3	nA
Diode capacitance	C2	VR=2 V, f=1 MHz	14.3	15.0	16.0	pF
	C10	VR=10 V, f=1 MHz	5.5	6.0	6.5	pF
Capacitance ratio	C2/C10		2.2	2.5		
Series resistance	rs	VR=5 V, f=470 MHz		0.3	0.4	Ω

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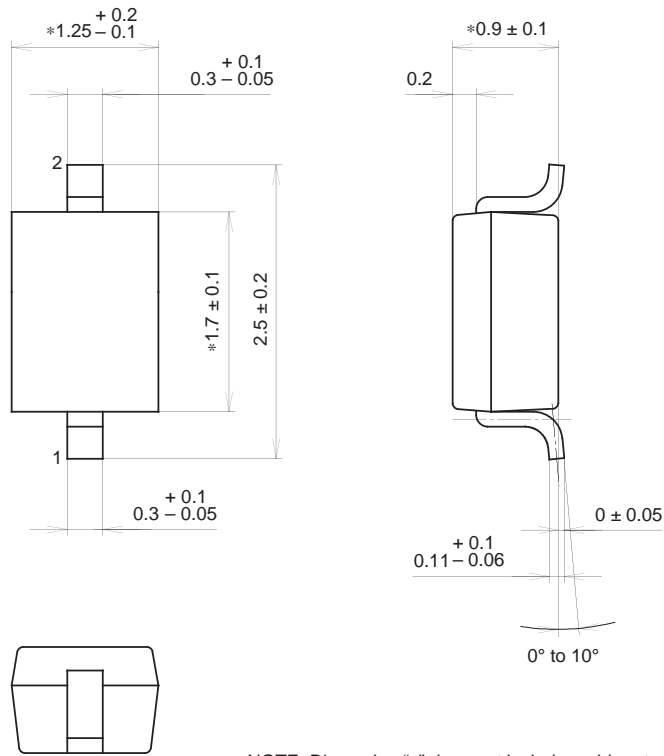
Example of Representative Characteristics





Package Outline Unit : mm

M-235

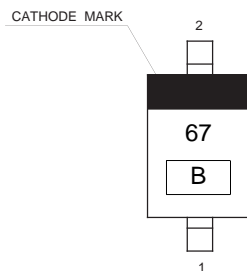


NOTE: Dimension "\*" does not include mold protrusion.

SONY CODE	M-235
EIAJ CODE	_____
JEDEC CODE	_____

PACKAGE WEIGHT	0.1g
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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.)



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