

Silicon Variable Capacitance Diode

Description

The 1T363A is a variable capacitance diode designed for electronic tuning of TV tuners, and the super-miniature package allows the tuner miniaturization.

Features

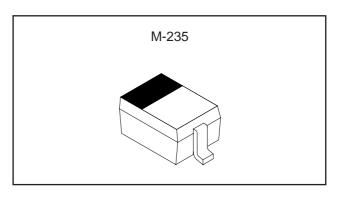
- Super miniature package
- Low series resistance 0.8 Ω Max. (f=470 MHz)
- Large capacitance ratio 15 Typ. (C1/C28)
- Small leakage current 10 nA Max. (VR=28 V)
- Capacitance deviation within 2 %

Applications

Electronic tuning of TV and CATV

Structure

Silicon epitaxial planar type diode



1T363A

Absolute Maximum Ratings (Ta=25 °C)

 Reverse voltage 	Vr	30	V
 Peak reverse voltage 	Vrm	35	V
		(R∟≥10) kΩ)
 Operating temperature 	Topr	85	°C
 Storage temperature 	Tstg	–55 to +150	°C

Electrical Characteristics

(Ta=25 °C)

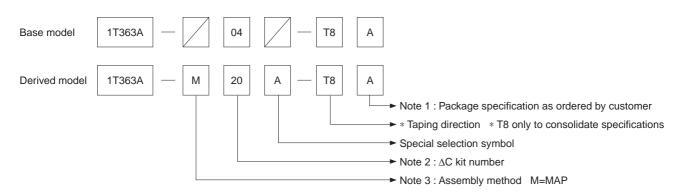
Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Reverse current	IR	VR=28 V			10	nA
Diode capacitance	C1	VR=1 V, f=1 MHz	34.65	38.00	42.35	pF
Diode capacitance	C28	VR=28 V, f=1 MHz	2.361	2.515	2.754	pF
Capacitance ratio	C1/C28	f=1 MHz	13.5	15.0		
Series resistance	rs	CD=14 pF, f=470 MHz		0.75	0.80	Ω
Capacitance deviation in a matching group	ΔC	VR=1 to 28 V, f=1 MHz			2	%

∆C:The capacitance deviation of continuous 20 pcs of 1T363A is ranged within 2% in any place of the taping package.

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Product Name and Package Specification for the 1T362A.

According to the classification number for the combination of capacitance deviations (hereafter ΔC), assembly method and automatic mounting equipment section, the following product names are assigned.



Note1) In taping packaging of products groups according to the ΔC classification, products must be divided according to the group. If taping is performed without grouping into categories, products from two different groups may be mounted on the same tuner, so that ΔC cannot be assured during tuning, making tuning defective.

A: Panasert method; Sections are divided by four blank spaces on the carrier tape.

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

B: Sanyo method; Black tape is affixed to one blank space on the carrier tape to mark sections.

0 0	0	0 () C) ()	0	0	0	0	0	0 () C) ()

Note 2) ΔC kit number

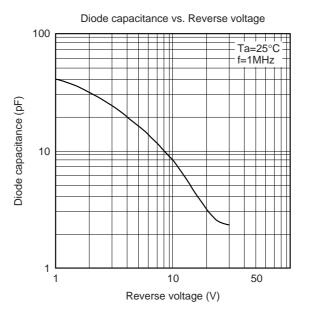
When taping each group, taping is performed in kit number multiples.

- 01; Incomplete kit (ΔC not guaranteed)
- 04; 4 kits
- 20; 20 kits

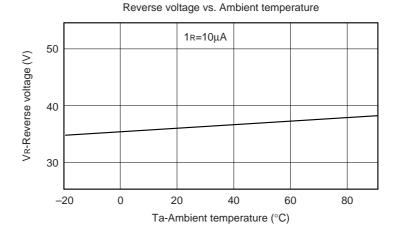
Recommended kit number; 4 and 20

- Other) Minimum number of kits per group is 240 (60 or more at the beginning of the carrier tape). Up to nine sections on one reel.
- **Note 3)** "MAP" is the method where the neighboring chips are assembled continuously in order to enhance the concentration of the capacitance deviation in a matching group.

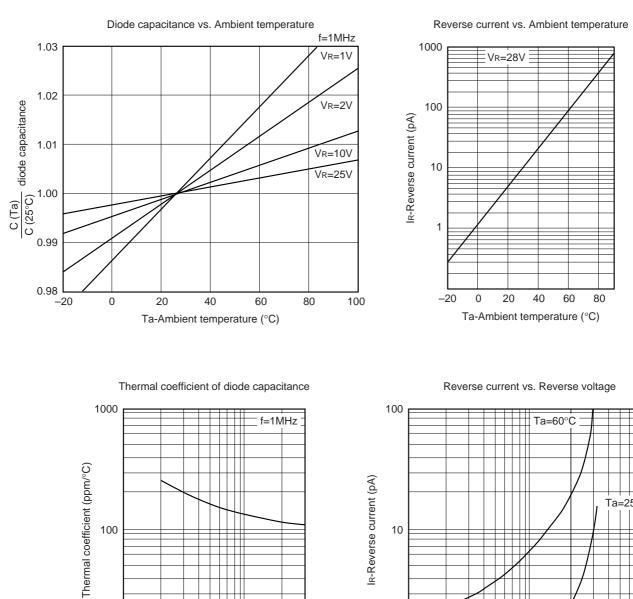
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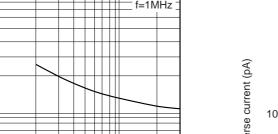


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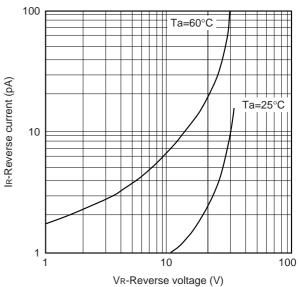
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VR-Reverse voltage (V)

30

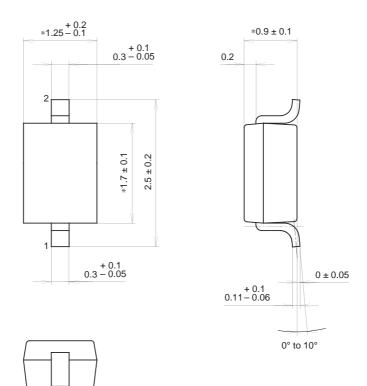
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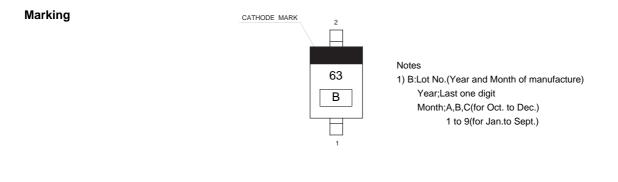
Package Outline Unit : mm



M-235

		1		
SONY CODE	M-235			
EIAJ CODE				
JEDEC CODE			PACKAGE WEIGHT	0.1g

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



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