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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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## **MA2S357**

### Silicon epitaxial planar type

#### For CATV tuner

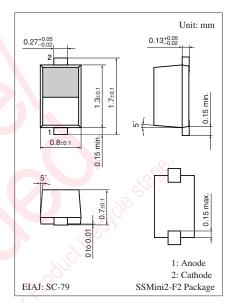
#### ■ Features

- Large capacitance ratio
- Small series resistance r<sub>D</sub>
- SS-Mini type package, allowing downsizing of equipment and automatic insertion through the taping package

### ■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Reverse voltage	V <sub>R</sub>	34	V	
Maximum peak reverse voltage *	$V_{RM}$	35	V	
Junction temperature	T <sub>j</sub>	150	°C	
Storage temperature	T <sub>stg</sub>	-55 to +150	°C	

Note) \*:  $R_L = 10 \text{ k}\Omega$ 



Marking Symbol: N

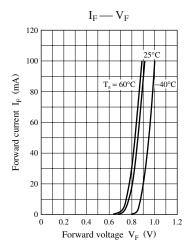
### ■ Electrical Characteristics $T_a = 25$ °C $\pm 3$ °C

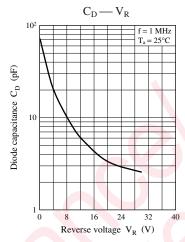
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current	$I_R$	$V_R = 30 \text{ V}$	100	0,	10	nA
Diode capacitance	C <sub>D(0V)</sub> *1	$V_R = 0 V, f = 1 MHz$	58.0	)-		pF
	C <sub>D(2V)</sub>	$V_R = 2 V, f = 1 MHz$	29.00		34.30	
	C <sub>D(25V)</sub>	$V_R = 25 \text{ V}, f = 1 \text{ MHz}$	2.53		2.92	
	C <sub>D(10V)</sub>	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$	6.40		8.32	
	C <sub>D(17V)</sub>	$V_R = 17 \text{ V}, f = 1 \text{ MHz}$	3.50		4.35	
Capacitance ratio	C <sub>D(2V)</sub> /C <sub>D(25V)</sub>	ish why	11.0			_
Diode capacitance deviation	ΔC	$C_{D(2V)(10V)(17V)(25V)}$			2.0	%
Series resistance *2	r <sub>D</sub>	$C_D = 9 \text{ pF, f} = 470 \text{ MHz}$			0.54	Ω

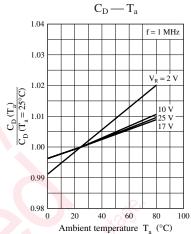
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

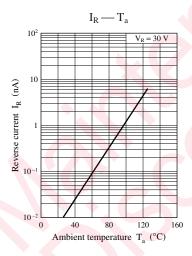
- 2. Absolute frequency of input and output is 470 MHz.
- 3. \*1: Measurement at Low signal level
  - \*2: Measuring instrument; YHP MODEL 4191A RF IMPEDANCE ANALYZER

## **Panasonic**









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