MA2S357

Silicon epitaxial planar type

For CATV tuner

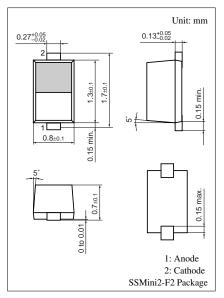
■ Features

- Large capacitance ratio
- Small series resistance r_D
- 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 (DC)	V_R	34	V
Peak reverse voltage *	V_{RM}	35	V
Junction temperature	T _j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

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



Marking Symbol: N

■ Electrical Characteristics $T_a = 25$ °C

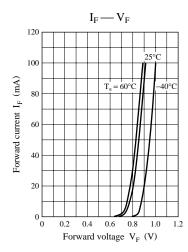
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I_R	$V_R = 30 \text{ V}$			10	nA
Diode capacitance	C _{D(0V)} *1	$V_R = 0 V, f = 1 MHz$	58.0			pF
	C _{D(2V)}	$V_R = 2 V$, $f = 1 MHz$	29.00		34.30	
	C _{D(25V)}	$V_R = 25 \text{ V}, f = 1 \text{ MHz}$	2.53		2.92	
	C _{D(10V)}	$V_R = 10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

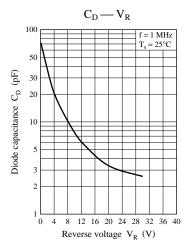
Note) 1. Rated input/output frequency: 470 MHz

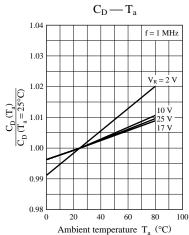
2. *1: Measurement at Low Signal Level

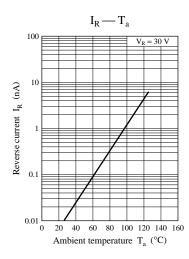
*2: Measuring instrument; YHP MODEL 4191A RF IMPEDANCE ANALYZER

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