MA2S372

Silicon epitaxial planar type

For UHF and VHF electronic tuner

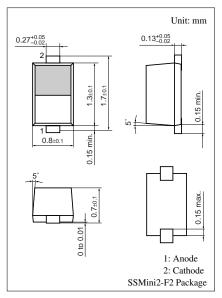
■ Features

- 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	32	V
Peak reverse voltage *	V_{RM}	34	V
Forward current (DC)	I_F	20	mA
Junction temperature	T _j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

Note) *: $R_L = 2.2 \text{ k}\Omega$



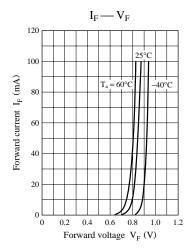
Marking Symbol: L

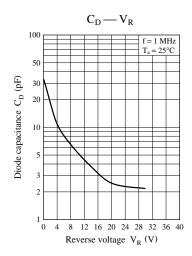
■ Electrical Characteristics $T_a = 25$ °C

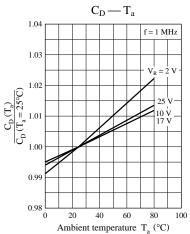
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I_R	$V_R = 30 \text{ V}$			10	nA
Diode capacitance	C _{D(2V)}	$V_R = 2 V, f = 1 MHz$	14.220		15.473	pF
	C _{D(25V)}	$V_R = 25 \text{ V}, f = 1 \text{ MHz}$	2.132		2.287	
	C _{D(10V)}	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$	5.307		6.128	
	C _{D(17V)}	$V_R = 17 V$, $f = 1 MHz$	2.909		3.411	
Capacitance ratio	C _{D(2V)} /C _{D(25V)}		6.22			_
	C _{D(10V)} /C _{D(17V)}		1.70		1.96	
Diode capacitance deviation	ΔC	C _{D(2V)(10V)(17V)(25V)}			2.0	%
Series resistance *	r_{D}	$C_D = 9 \text{ pF, f} = 470 \text{ MHz}$			0.45	Ω

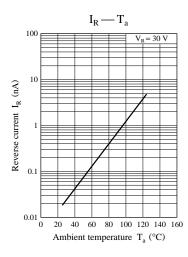
Note) 1. Rated input/output frequency: 470 MHz

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









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