

# MA2S374

## Silicon epitaxial planar type

For CATV tuner

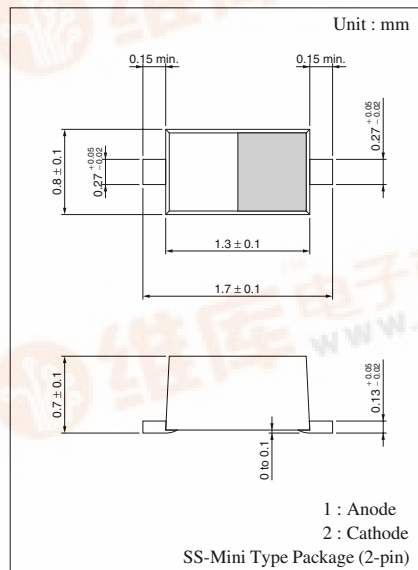
### ■ Features

- Small series resistance  $r_D$
- SS-mini type package, allowing downsizing of equipment and automatic insertion through the taping package

### ■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	$V_R$	34	V
Peak reverse voltage*	$V_{RM}$	35	V
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$

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



Marking Symbol: T

### ■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	$I_R$	$V_R = 30\text{ V}$			10	nA
Diode capacitance	$C_{D(0V)}^{*1}$	$V_R = 0\text{ V}, f = 1\text{ MHz}$	87			pF
	$C_{D(2V)}$	$V_R = 2\text{ V}, f = 1\text{ MHz}$	44.00		50.79	pF
	$C_{D(25V)}$	$V_R = 25\text{ V}, f = 1\text{ MHz}$	2.60		3.03	pF
	$C_{D(10V)}$	$V_R = 10\text{ V}, f = 1\text{ MHz}$	8.80		13.08	pF
	$C_{D(17V)}$	$V_R = 17\text{ V}, f = 1\text{ MHz}$	3.70		5.04	pF
Capacitance ratio	$C_{D(2V)}/C_{D(25V)}$		15.0			—
Diode capacitance deviation	$\Delta C$	$C_{D(2V)(10V)(17V)(25V)}$			2.0	%
Series resistance* <sup>2</sup>	$r_D$	$C_D = 9\text{ pF}, f = 470\text{ MHz}$			0.9	$\Omega$

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

2. \*1 : Measurement at Low Signal Level

\*2 :  $r_f$  measuring instrument: YHP MODEL 4191A RF IMPEDANCE ANALYZER

