## **MA2S377**

### Silicon epitaxial planar type

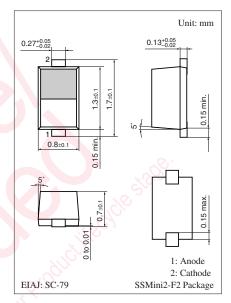
For VCO, VCXO and TCXO

#### ■ Features

• 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	$V_R$	12	V	
Forward current	$I_{F}$	20	mA	
Junction temperature	T <sub>j</sub>	150	°C	
Storage temperature	$T_{stg}$	-55 to +150	°C	



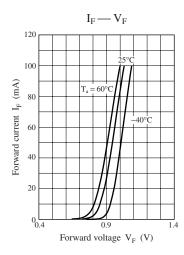
Marking Symbol: 7

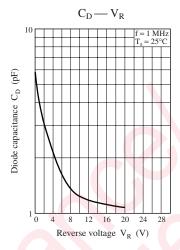
#### ■ Electrical Characteristics $T_a = 25 \pm 3$ °C

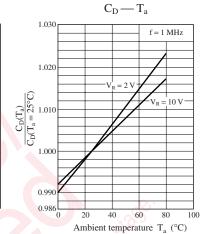
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current	$I_R$	$V_R = 12 \text{ V}$	100	0	10	nA
Diode capacitance	$C_{D(2V)}$	$V_R = 2 V, f = 1 MHz$	2.80	)-	3.40	pF
	C <sub>D(10V)</sub>	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$	1.10		1.50	
Capacitance ratio	C <sub>D(2V)</sub> /C <sub>D(10V)</sub>	618 9 1100 100	2.20		2.80	_
Series resistance *	$r_{\mathrm{D}}$	$C_D = 9 \text{ pF, f} = 470 \text{ MHz}$		0.40	0.60	Ω

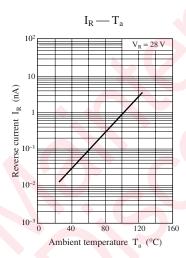
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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









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