## **MA27077**

## Silicon epitaxial planar type

#### For band switching

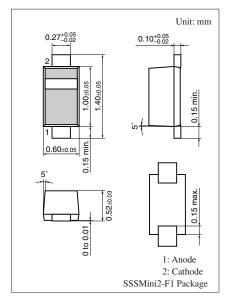
#### ■ Features

- ullet Low forward dynamic resistance  $r_{\mathrm{f}}$
- $\bullet$  Less voltage dependence of diode capacitance  $C_{\rm D}$
- SSS-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	$V_R$	35	V
Forward current	$I_F$	100	mA
Operating ambient temperature *	T <sub>opr</sub>	-25 to +85	°C
Storage temperature	$T_{stg}$	-55 to +125	°C

Note) \*: Maximum ambient temperature during operation.



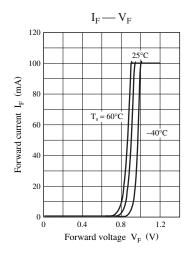
Marking Symbol: C

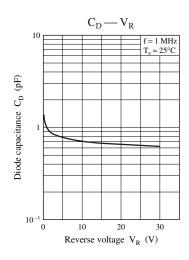
## ■ Electrical Characteristics $T_a = 25$ °C $\pm 3$ °C

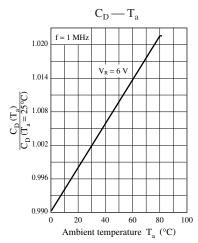
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_F$	$I_F = 100 \text{ mA}$		0.92	1.00	V
Reverse current	$I_R$	$V_R = 33 \text{ V}$		0.01	100.00	nA
Diode capacitance	$C_{D}$	$V_R = 6 \text{ V, f} = 1 \text{ MHz}$		0.9	1.2	pF
Forward dynamic resistance *	$r_{\rm f}$	$I_F = 2 \text{ mA}, f = 100 \text{ MHz}$		0.65	0.85	Ω

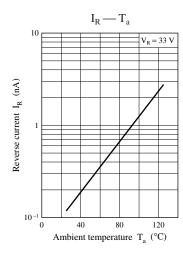
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

- 2. Absolute frequency of input and output is 100 MHz.
- 3. \*: Measuring instrument; YHP MODEL 4191A RF IMPEDANCE ANALYZER









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