# **MA27077**

## Silicon epitaxial planar type

### For band switching

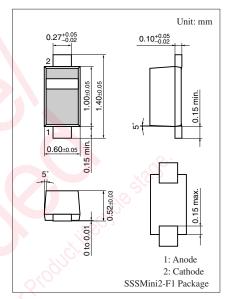
#### ■ Features

- Low forward dynamic resistance r<sub>f</sub>
- Less voltage dependence of diode capacitance C<sub>D</sub>
- SSS-Mini type package, allowing downsizing of equipment and automatic insertion through the taping package

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

Parameter	Symbol	Rating	Unit	
Reverse voltage	$V_R$	35	V	
Forward current	$I_{\mathrm{F}}$	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.



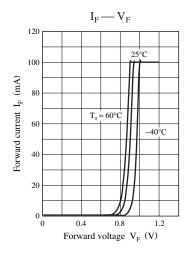
Marking Symbol: C

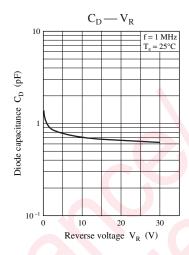
## ■ Electrical Characteristics $T_a = 25$ °C $\pm 3$ °C

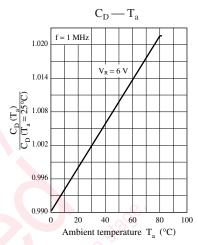
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{\rm F}$	$I_F = 100 \text{ mA}$	100 C	0.92	1.00	V
Reverse current	$I_R$	$V_R = 33 \text{ V}$		0.01	100.00	nA
Diode capacitance	$C_{\rm D}$	$V_R = 6 \text{ V}, f = 1 \text{ MHz}$	7.90	0.9	1.2	pF
Forward dynamic resistance *	$r_{\rm f}$	$I_F = 2 \text{ mA}, f = 100 \text{ MHz}$		0.65	0.85	Ω

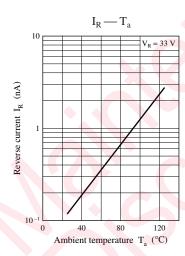
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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









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