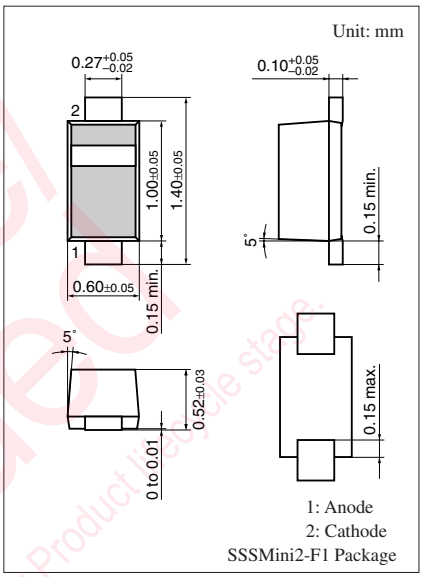
MA27077

Silicon epitaxial planar type

For band switching



Marking Symbol: C

■ Features

- Low forward dynamic resistance r_f
- Less voltage dependence of diode capacitance C_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_{opr}	−25 to +85	°C
Storage temperature	T_{stg}	−55 to +125	°C

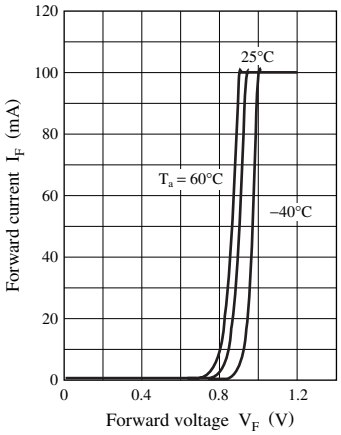
Note) *: Maximum ambient temperature during operation.

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

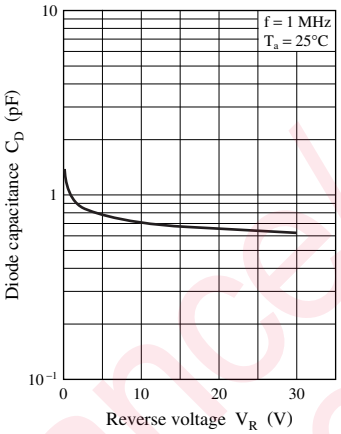
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 100$ mA		0.92	1.00	V
Reverse current	I_R	$V_R = 33$ V		0.01	100.00	nA
Diode capacitance	C_D	$V_R = 6$ V, f = 1 MHz		0.9	1.2	pF
Forward dynamic resistance *	r_f	$I_F = 2$ mA, f = 100 MHz		0.65	0.85	Ω

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

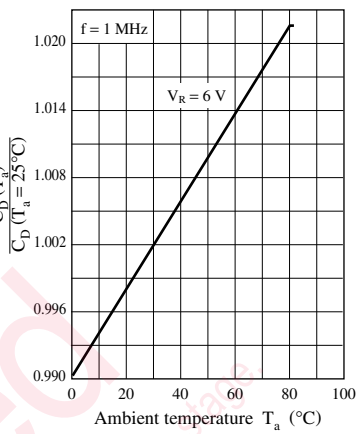
I_F — V_F



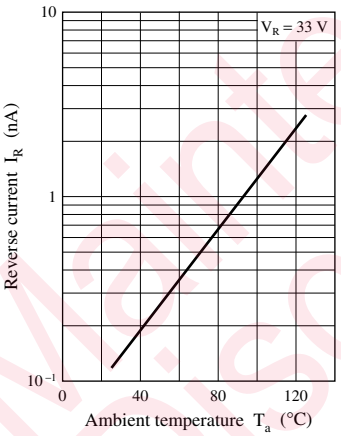
C_D — V_R



C_D — T_a



I_R — T_a



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(6) Comply with the instructions for use in order to prevent breakdown and characteristics change due to external factors (ESD, EOS, thermal stress and mechanical stress) at the time of handling, mounting or at customer's process. When using products for which damp-proof packing is required, satisfy the conditions, such as shelf life and the elapsed time since first opening the packages.

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