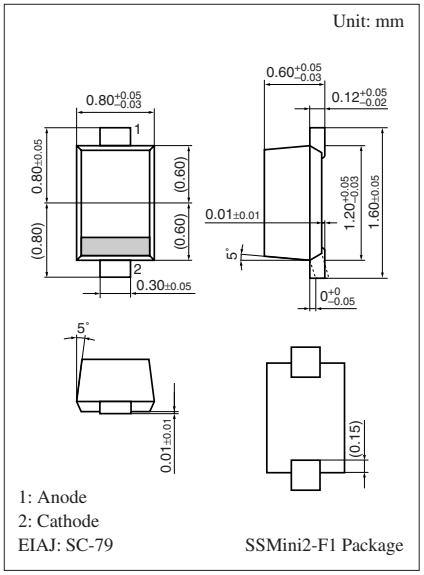
MA2SE01

Silicon epitaxial planar type

For mixer

■ Features

- High-frequency wave detection is possible
- Low forward voltage V_F
- Small terminal capacitance C_t
- SS-Mini type 2-pin package



Marking Symbol: 4L

■ Absolute Maximum Ratings $T_a = 25°C$

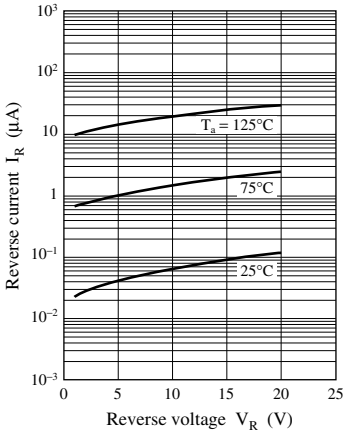
Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	20	V
Maximum peak reverse voltage	V_{RM}	20	V
Forward current	I_F	35	mA
Peak forward current	I_{FM}	100	mA
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	−55 to +125	°C

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

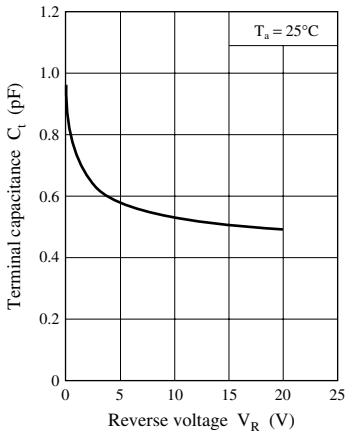
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_{F1}	$I_F = 1$ mA			0.41	V
	V_{F2}	$I_F = 35$ mA			1.0	V
Reverse current	I_R	$V_R = 15$ V			200	nA
Terminal capacitance	C_t	$V_R = 0$ V, f = 1 MHz			1.2	pF
Forward dynamic resistance	r_f	$I_F = 5$ mA		40		Ω

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
3. Rated input/output frequency: 2 GHz

I_R — V_R


Reverse current I_R (μA)
10^3
10^2
10
1
10^{-1}
10^{-2}
10^{-3}
T_a = 125°C
75°C
25°C
0
5
10
15
20
25
Reverse voltage V_R (V)

C_t — V_R


Terminal capacitance C_t (pF)
1.2
1.0
0.8
0.6
0.4
0.2
0
T_a = 25°C
0
5
10
15
20
25
Reverse voltage V_R (V)

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(3) We are not liable for the infringement of rights owned by a third party arising out of the use of the product or technologies as described in this material.

(4) The products described in this material are intended to be used for standard applications or general electronic equipment (such as office equipment, communications equipment, measuring instruments and household appliances).
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- Any applications other than the standard applications intended.

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Even when the products are used within the guaranteed values, take into the consideration of incidence of break down and failure mode, possible to occur to semiconductor products. Measures on the systems such as redundant design, arresting the spread of fire or preventing glitch are recommended in order to prevent physical injury, fire, social damages, for example, by using the products.

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