# **MA6X129** (MA129)

### Silicon epitaxial planar type

#### For small power current rectification

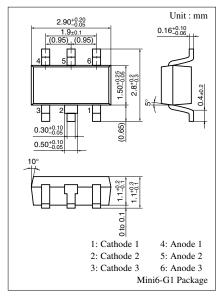
#### ■ Features

- Three isolated elements contained in one package, allowing highdensity mounting
- Allowing high voltage rectification

#### ■ Absolute Maximum Ratings $T_a = 25$ °C

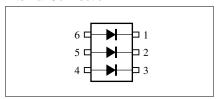
Parameter		Symbol	Rating	Unit
Reverse voltage (DC)		$V_R$	200	V
Peak reverse voltage		$V_{RM}$	200	V
Output current	Single	$I_{O}$	100	mA
	Triple		200	
Repetitive peak	Single	$I_{FRM}$	200	mA
forward current	Triple		600	
Non-repetitive peak	Single	I <sub>FSM</sub>	350	mA
forward surge current*	Triple		1 000	
Junction temperature		T <sub>j</sub>	150	°C
Storage temperature		$T_{stg}$	-55 to +150	°C

Note) \* : t = 1 s



Marking Symbol: M4F

#### Internal Connection



#### ■ Electrical Characteristics $T_a = 25$ °C

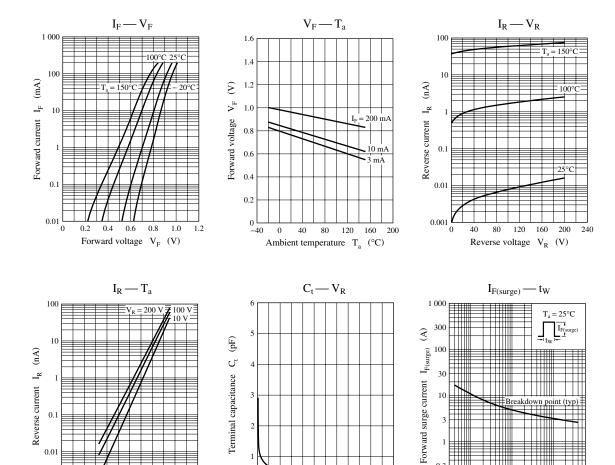
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	$I_R$	$V_R = 200 \text{ V}$			0.2	μΑ
Forward voltage (DC)	V <sub>F</sub>	$I_F = 200 \text{ mA}$			1.2	V
Terminal capacitance	C <sub>t</sub>	$V_R = 0 \text{ V, f} = 1 \text{ MHz}$		4.5		pF

Note) Rated input/output frequency: 3 MHz

Note) The part number in the parenthesis shows conventional part number.

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MA6X129 Rectifier Diodes



100 150 200

Reverse voltage V<sub>R</sub> (V)

0.1 0.03 0.1

0.3

Pulse width t<sub>W</sub> (ms)

30 60

250 300

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0.001

120

Ambient temperature  $T_a$  (°C)

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