

# MA6J786X

## Silicon epitaxial planar type

For high speed switching circuits

### Overview

MA6J786X is optimal for general circuit supplies.  
The assembly of 3 MA3X786 elements in parallel in one package.

### Features

- Forward current (Average)  $I_{F(AV)} = 100$  mA rectification is possible
- Short reverse recovery time  $t_{rr}$ , optimum for high-frequency rectification
- Low forward voltage  $V_F$  and good rectification efficiency

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

Parameter	Symbol	Rating	Unit
Reverse voltage	$V_R$	30	V
Maximum peak reverse voltage	$V_{RM}$	30	V
Forward current (Average)	$I_{F(AV)}$	100	mA
Peak forward current	$I_{FM}$	300	mA
Non-repetitive peak forward surge current *	$I_{FSM}$	1	A
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +125	$^\circ\text{C}$

Note) \*: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

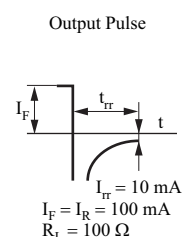
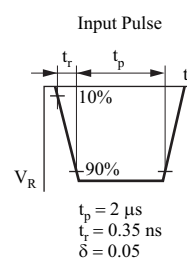
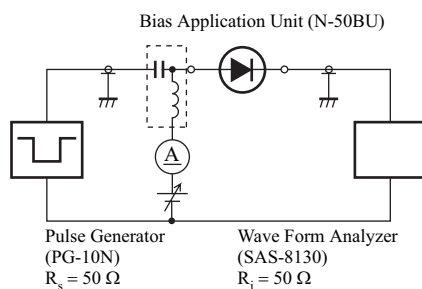
### Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_{F1}$	$I_F = 100$ mA			0.55	V
Reverse current	$I_R$	$V_R = 30$ V			15	$\mu\text{A}$
Terminal capacitance	$C_t$	$V_R = 0$ , $f = 1$ MHz		20		pF
Reverse recovery time *	$t_{rr}$	$I_F = I_R = 100$ mA, $I_{rr} = 0.1 \times I_R$ , $R_L = 100 \Omega$		1.0		ns

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. \*:  $t_{rr}$  measurement circuit



### Package

#### • Code

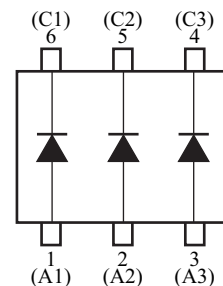
SMini6-F1

#### • Pin Name

1: Anode 1	4: Cathode 3
2: Anode 2	5: Cathode 2
3: Anode 3	6: Cathode 1

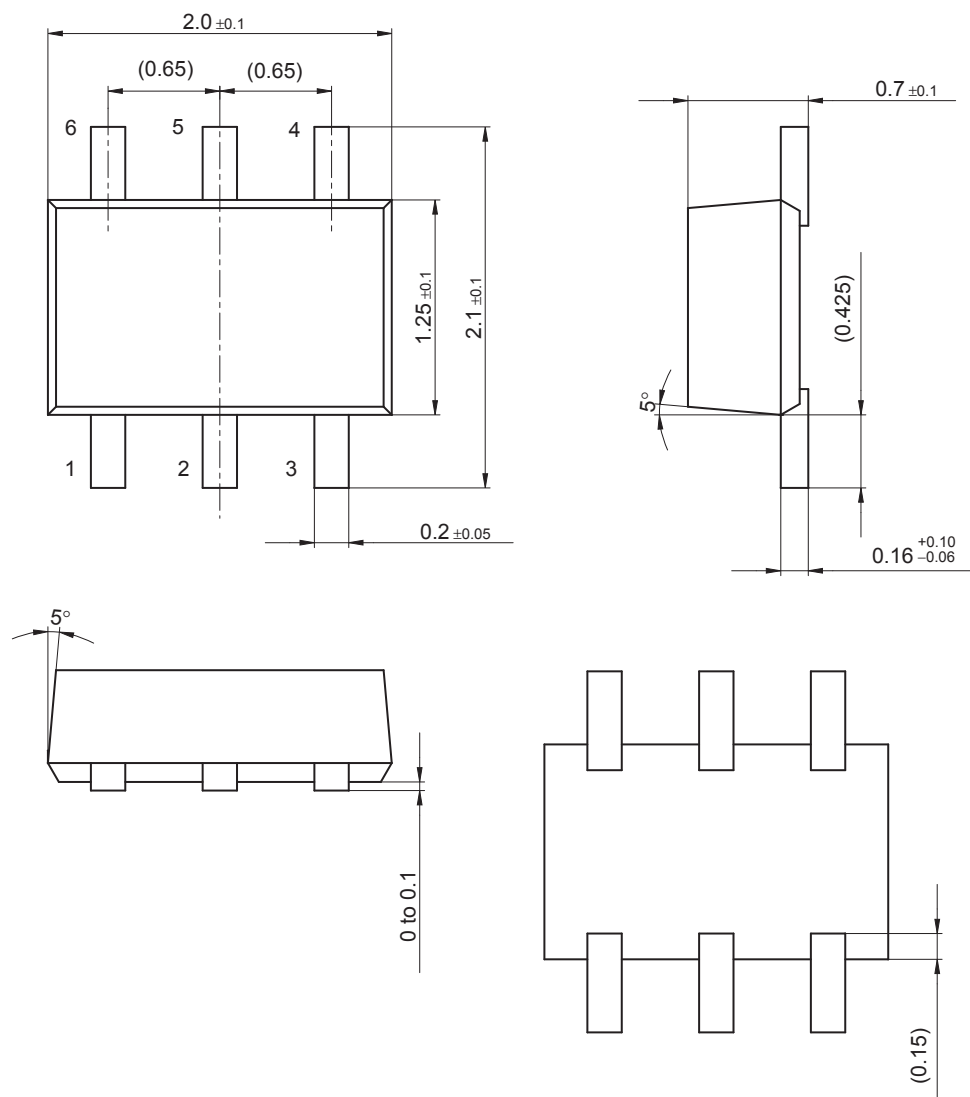
### Marking Symbol: M8B

### Internal Connection



# SMini6-F1

Unit: mm



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