

# MA6X128 (MA128)

## Silicon epitaxial planar type

For switching circuits

### ■ Features

- Four isolated elements contained in one package, allowing high-density mounting
- Centrosymmetrical wiring, allowing to free from the taping direction
- The mirror image wiring of MA6X123 (MA123)
- Short reverse recovery time  $t_{rr}$
- Small terminal capacitance  $C_t$
- High breakdown voltage:  $V_R = 80$  V

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

Parameter	Symbol	Rating	Unit
Reverse voltage	$V_R$	80	V
Maximum peak reverse voltage	$V_{RM}$	80	V
Forward current *1	$I_F$	100	mA
Peak forward current *1	$I_{FM}$	225	mA
Non-repetitive peak forward surge current *1,2	$I_{FSM}$	500	mA
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$

Note) \*1: Value for single diode

\*2:  $t = 1$  s

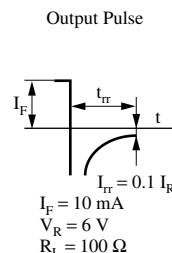
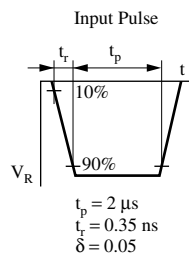
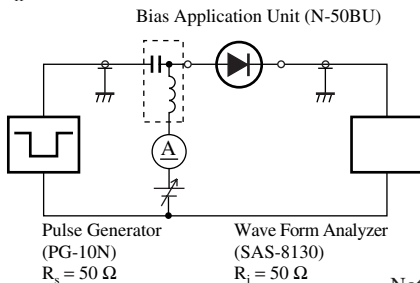
### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_F$	$I_F = 100$ mA			1.2	V
Reverse voltage	$V_R$	$I_R = 100$ $\mu\text{A}$	80			V
Reverse current	$I_R$	$V_R = 75$ V			100	nA
Terminal capacitance	$C_t$	$V_R = 0$ V, $f = 1$ MHz			2	pF
Reverse recovery time *	$t_{rr}$	$I_F = 10$ mA, $V_R = 6$ V $I_{rr} = 0.1 I_R$ , $R_L = 100$ $\Omega$			3	ns

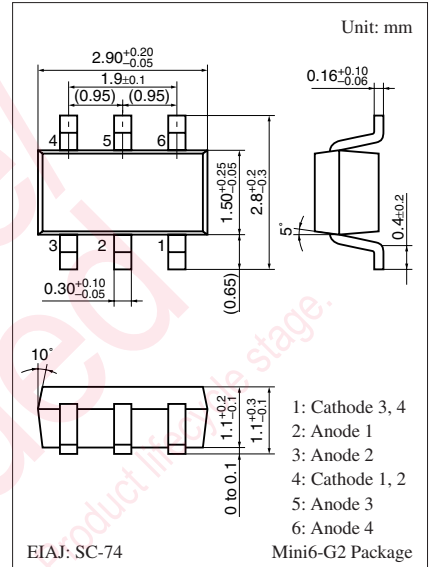
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

2. Absolute frequency of input and output is 100 MHz.

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

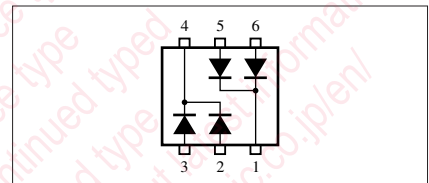


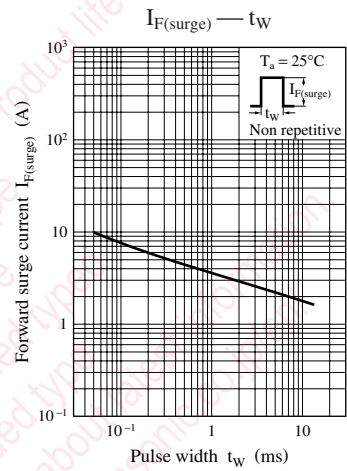
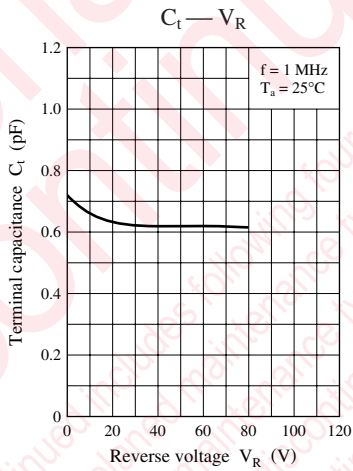
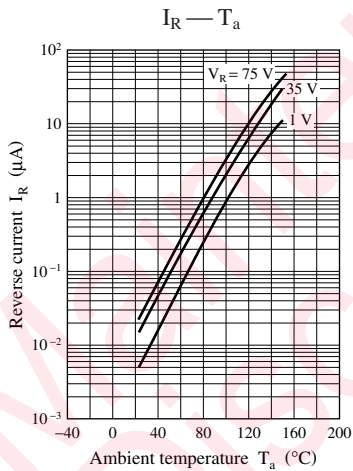
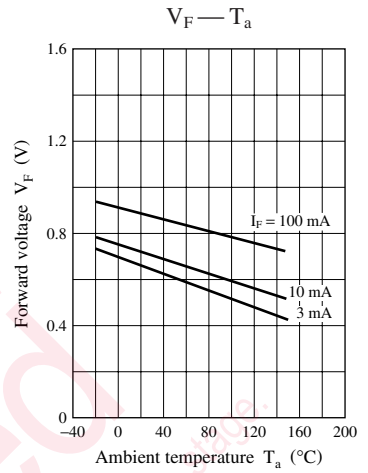
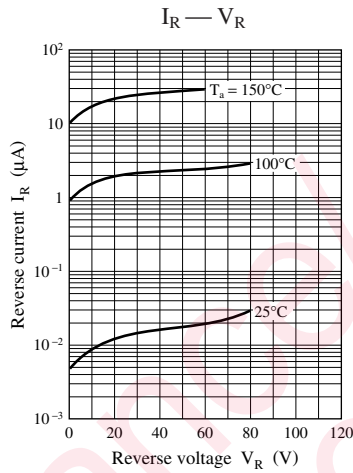
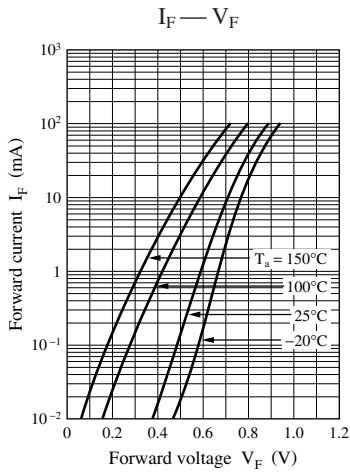
Note) The part number in the parenthesis shows conventional part number.



Marking Symbol: M2V

Internal Connection





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