MA6X127 (MA127)

Silicon epitaxial planar type

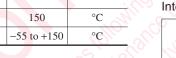
For switching circuit

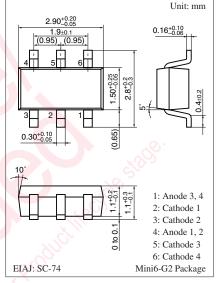
Features

- Four isolated elements contained in one package, allowing highdensity mounting
- Centrosymmetrical wiring, allowing to free from the taping direction
- The mirror image wiring of MA6X122 (MA122)
- High breakdown voltage: $V_R = 80 V$

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	Tj	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

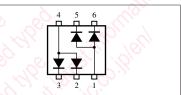
Absolute Maximum Ratings $T_a = 25^{\circ}C$





Marking Symbol: M2U

Internal Connection



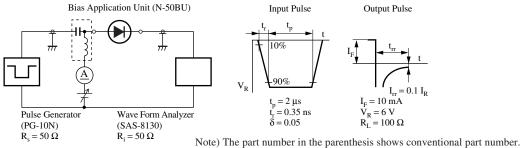
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Note) *1: Value for single diode *2: t = 1 s

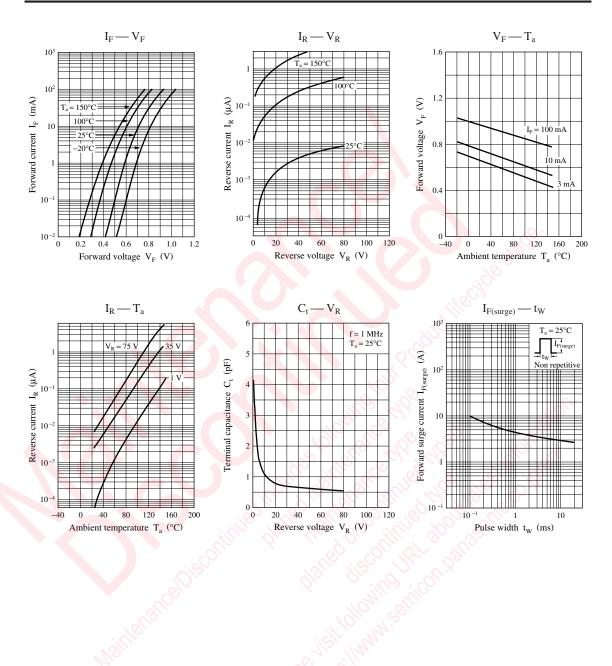
Parameter	Symbol	Conditions	Min	Тур	Max	Unit		
Forward voltage	V _F	I _F = 100 mA	2.0		1.2	V		
Reverse voltage	V _R	I _R = 100 μA	80			V		
Reverse current	I _R	V _R = 75 V			100	nA		
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$			15	pF		
Reverse recovery time *	t _{rr}	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			10	ns		
		$I_{rr} = 0.1 I_R, R_L = 100 \Omega$						

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. *: trr measurement circuit



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