MA6X123 (MA123)

Silicon epitaxial planar type

For switching circuit

Features

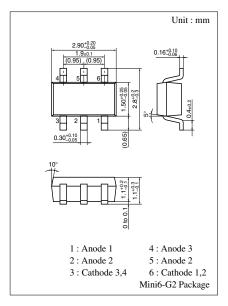
- Four-element contained in one package, allowing high-density mounting
- Centrosymmetrical wiring, allowing to free from the taping direction
- ullet Short reverse recovery time t_{rr}
- Small terminal capacitance, C_t

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	80	V
Peak reverse voltage	V_{RM}	80	V
Average 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	°C
Storage temperature	T_{stg}	-55 to +150	°C

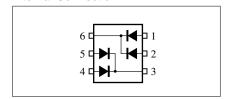
Note) *1: Value for single diode

*2: t = 1 s



Marking Symbol: M2B

Internal Connection

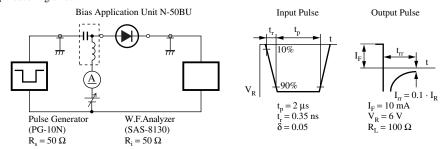


■ Electrical Characteristics $T_a = 25$ °C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I_R	$V_R = 75 \text{ V}$			100	nA
Forward voltage (DC)	V _F	$I_F = 100 \text{ mA}$			1.2	V
Reverse voltage (DC)	V _R	$I_R = 100 \mu A$	80			V
Terminal capacitance	C _t	$V_R = 0 V, f = 1 MHz$			2	pF
Reverse recovery time*	t _{rr}	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			3	ns
		$I_{rr} = 0.1 \cdot I_{R}, R_{L} = 100 \Omega$				

Note) 1. Rated input/output frequency: 100 MHz

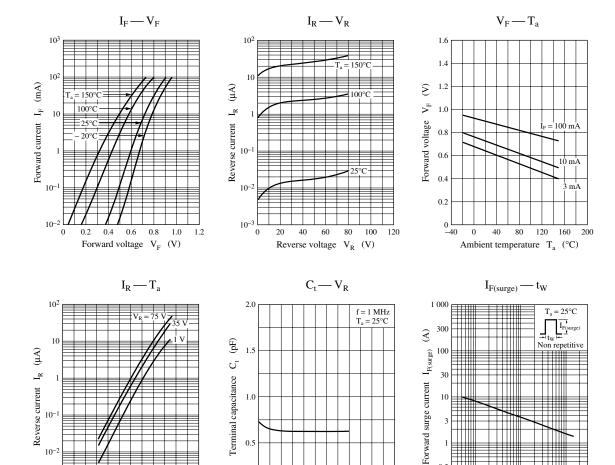
2. *: t_{rr} measuring circuit



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

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Pulse width t_{W} (ms)



40 60 80

Reverse voltage V_R (V)

120

0.5

80

Ambient temperature T_a (°C)

120 160

200

Panasonic 110

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