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MA6X124 (MA124)

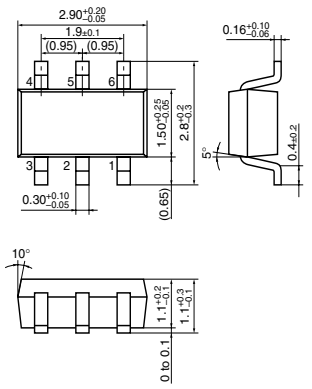
Silicon epitaxial planar type

For switching circuit

■ Features

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

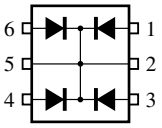
Unit : mm



1 : Anode 1
2 : Cathode 1,2,3,4
3 : Anode 2
4 : Anode 3
5 : Cathode 1,2,3,4
6 : Anode 4
Mini6-G2 Package

Marking Symbol: M2C

Internal Connection



■ Absolute Maximum Ratings $T_a = 25°C$

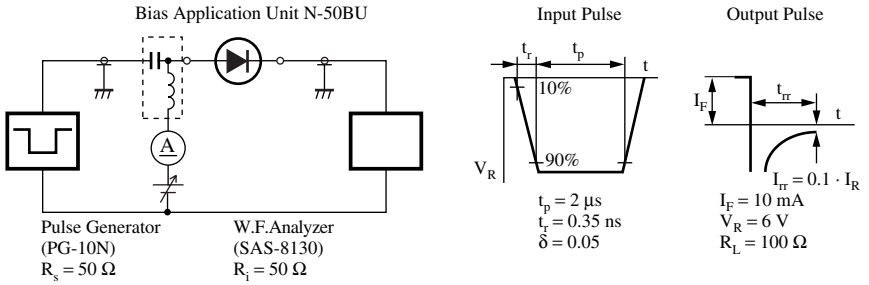
Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	80	V
Peak reverse voltage	V_{RM}	80	V
Average forward current*1	I_F	100	mA
Peak forward current*1	I_{FM}	225	mA
Non-repetitive peak forward surge current*1,2	I_{FSM}	500	mA
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	−55 to +150	°C

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

■ Electrical Characteristics $T_a = 25°C$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	I_R	V_R = 75 V			100	nA
Forward voltage (DC)	V_F	I_F = 100 mA			1.2	V
Reverse voltage (DC)	V_R	I_R = 100 µA	80			V
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 Ω			3	ns

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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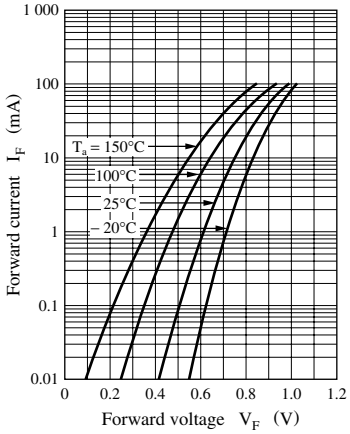
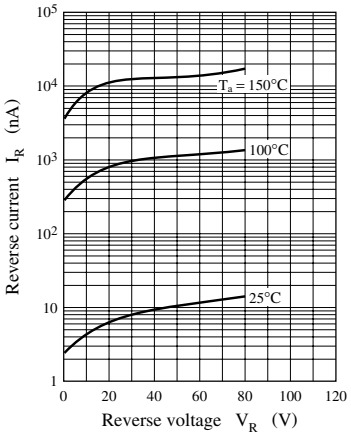
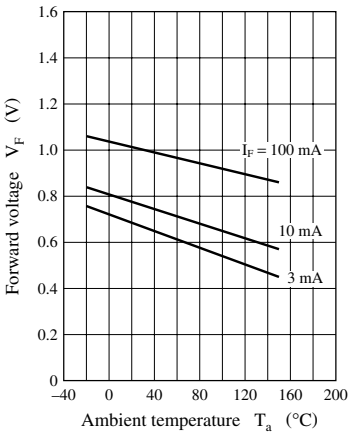
I_F — V_F



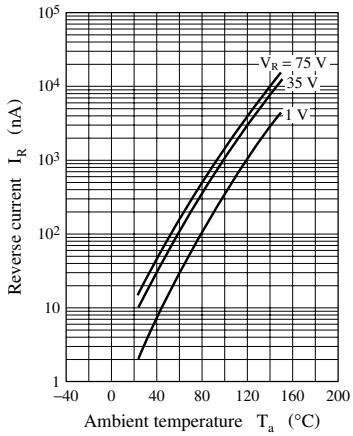
I_R — V_R



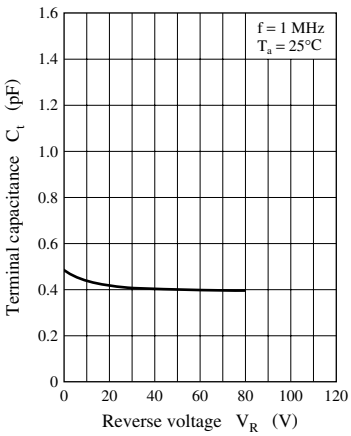
V_F — T_a



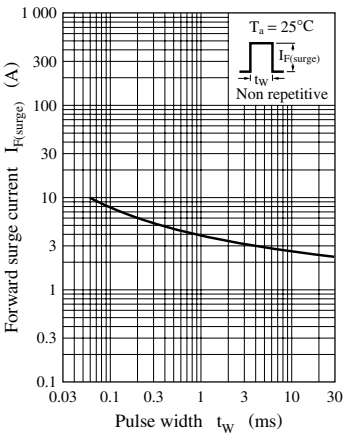
I_R — T_a



C_t — V_R



$I_{F(surge)}$ — t_W



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