

MA6X122 (MA122)

Silicon epitaxial planar type

For switching circuit

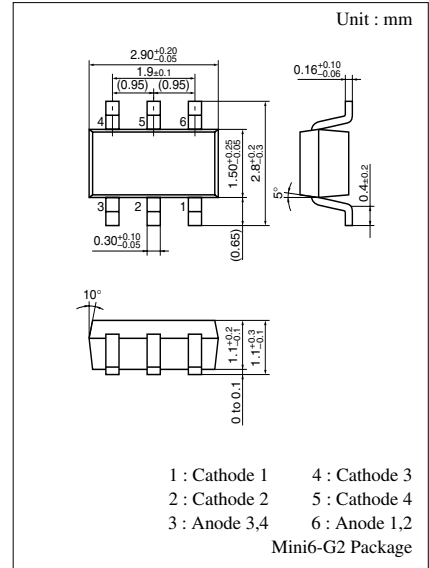
■ Features

- Four-element contained in one package, allowing high-density mounting
- Centrosymmetrical wiring, allowing to free from the taping direction

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

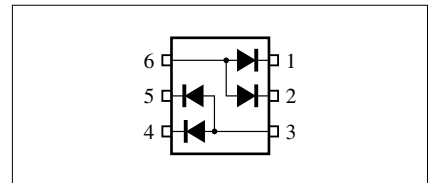
Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	80	V
Peak reverse voltage	V_{RM}	80	V
Average forward current* ¹	I_F	100	mA
Peak forward current* ¹	I_{FM}	225	mA
Non-repetitive peak forward surge current* ^{1,2}	I_{FSM}	500	mA
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150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

Note) *1: Value for single diode
 *2: $t = 1\text{ s}$



Marking Symbol: M2A

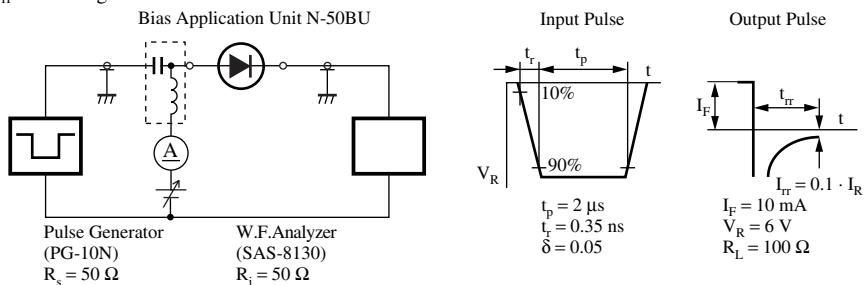
Internal Connection



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

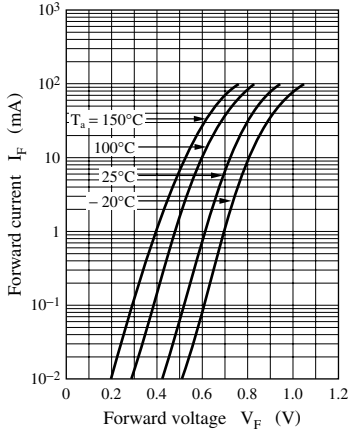
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	I_R	$V_R = 75\text{ V}$			100	nA
Forward voltage (DC)	V_F	$I_F = 100\text{ mA}$			1.2	V
Reverse voltage (DC)	V_R	$I_R = 100\ \mu\text{A}$	80			V
Terminal capacitance	C_t	$V_R = 0\text{ V}, f = 1\text{ MHz}$			15	pF
Reverse recovery time*	t_{rr}	$I_F = 10\text{ mA}, V_R = 6\text{ V}$ $I_{rr} = 0.1 \cdot I_R, R_L = 100\ \Omega$			10	ns

Note) 1. Rated input/output frequency: 100 MHz
 2. *: t_{rr} measuring circuit

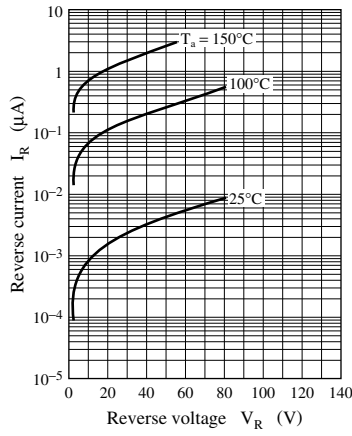


Note) The part number in the parenthesis shows conventional part number.

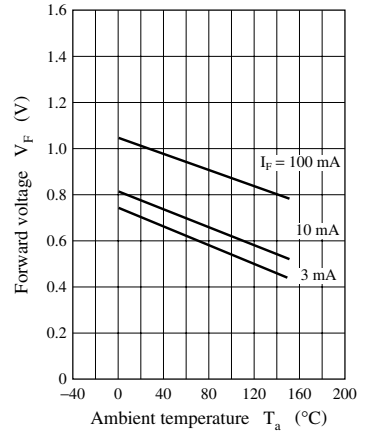
$I_F - V_F$



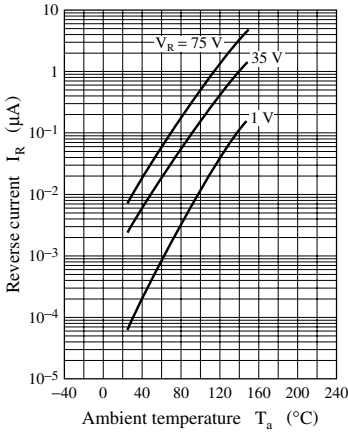
$I_R - V_R$



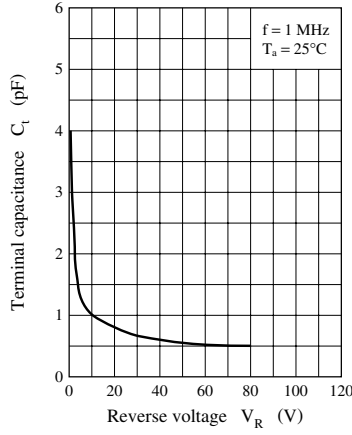
$V_F - T_a$



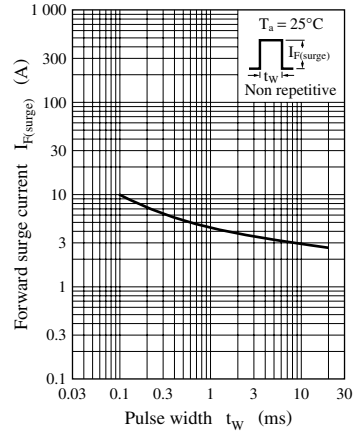
$I_R - T_a$



$C_t - V_R$



$I_{F(\text{surge})} - t_w$



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