

MA126

Silicon epitaxial planer type

For switching circuits

■ Features

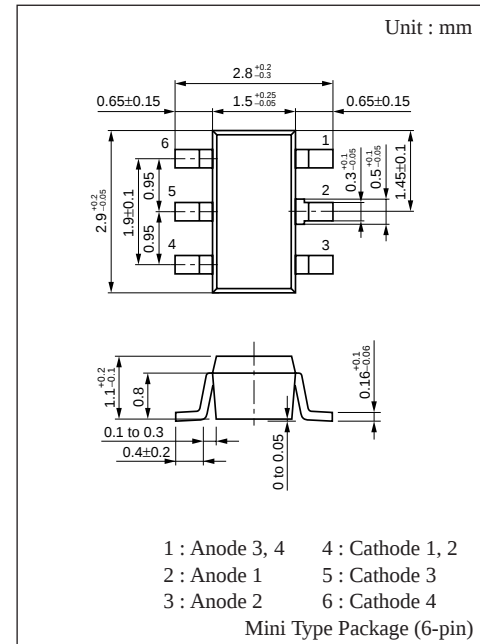
- Four-element incorporated in one package, enabling high-density mounting
- High voltage resistance V_R : 80V

■ Absolute Maximum Ratings (Ta= 25°C)

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

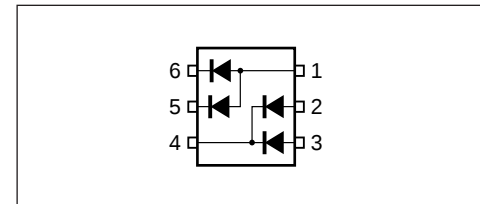
* Value in single diode used

* $t=1s$



Marking Symbol : M2S

■ Internal Connection



■ Electrical Characteristics (Ta= 25°C)

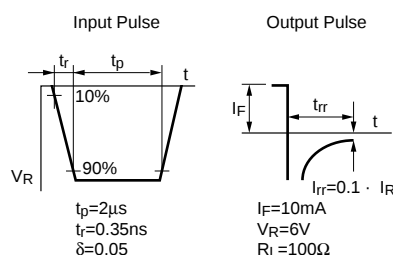
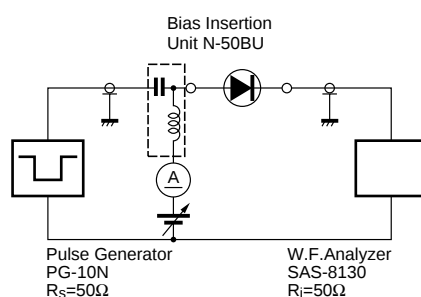
Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R=75V$			100	nA
Forward voltage (DC)	V_F	$I_F=100mA$			1.2	V
Reverse voltage (DC)	V_R	$I_R=100\mu A$	80			V
Terminal capacitance	C_{t1} *1	$V_R=0V, f=1MHz$			15	pF
	C_{t2} *2	$V_R=0V, f=1MHz$			2	pF
Reverse recovery time	t_{rr1} *1, 3	$I_F=10mA, V_R=6V$			10	ns
	t_{rr2} *2, 3	$I_{rr}=0.1 \cdot I_R, R_L=100\Omega$			3	

Note 1 : Rated input/output frequency : 100MHz

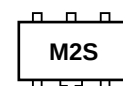
2 : *1 Between pins 1 and 5 Between pins 1 and 6

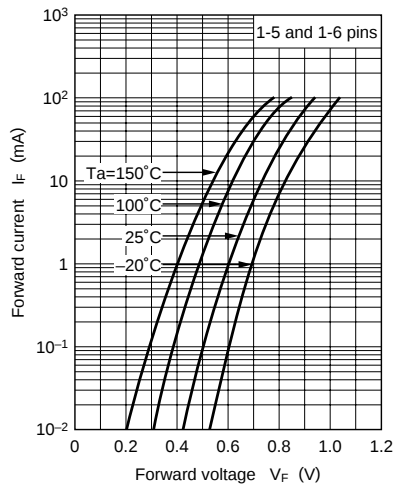
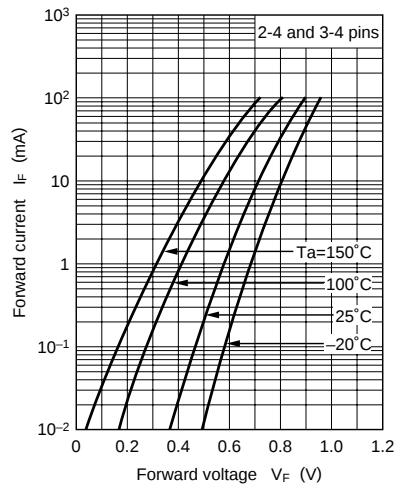
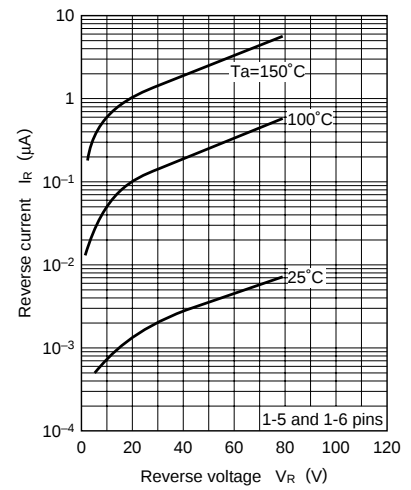
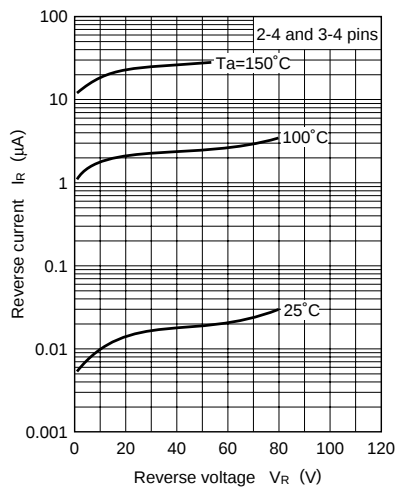
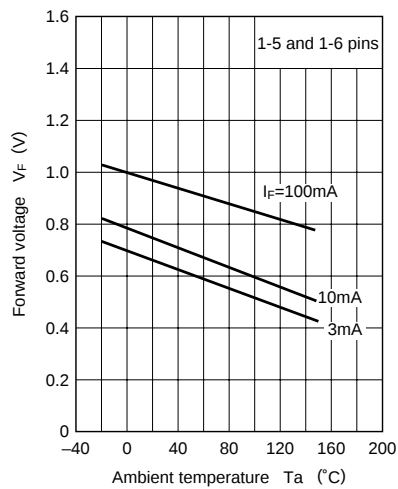
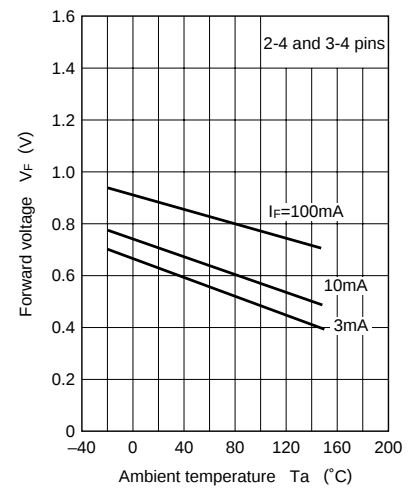
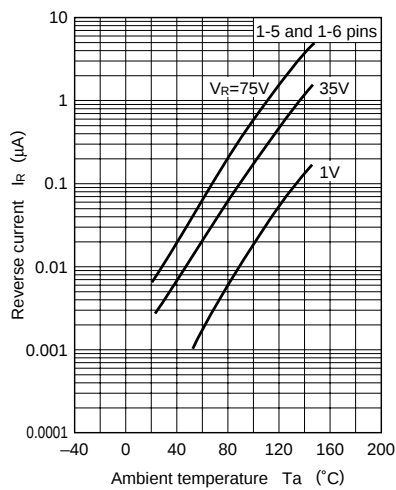
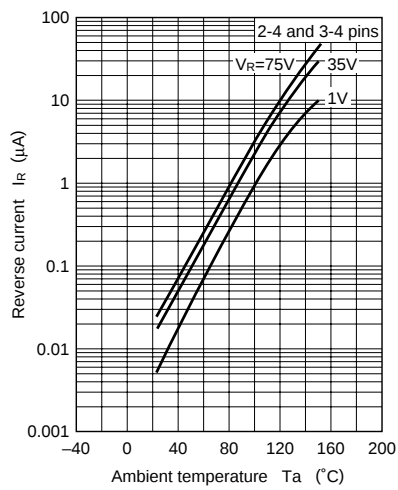
*2 Between pins 4 and 2 Between pins 4 and 3

* t_{rr} measuring circuit



■ Marking



$I_F - V_F$  $I_F - V_F$  $I_R - V_R$  $I_R - V_R$  $V_F - T_a$  $V_F - T_a$  $I_R - T_a$  $I_R - T_a$  $C_t - V_R$ 