

MA704WA, MA704WK

Silicon epitaxial planer type

For switching

For wave detection circuit

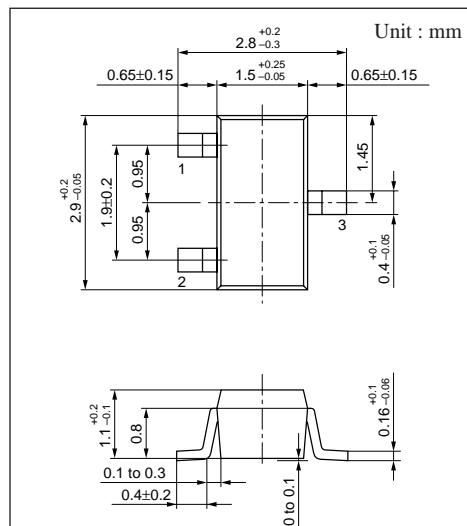
■ Features

- Two elements are incorporated in MA704A
- Low forward rise voltage V_F and satisfactory wave detection efficiency
- Temperature coefficient of forward characteristic is small.
- Extremely low reverse current I_R

■ Absolute Maximum Ratings (Ta = 25°C)

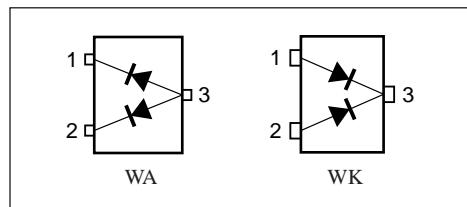
Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	30	V
Peak forward current	I_{FM}	150	mA
Double	110*		
Forward current (DC)	I_F	30	mA
Double	20*		
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-55 to +125	°C

* Use value per chip



	MA704WA	MA704WK
1	Cathode	Anode
2	Cathode	Anode
3	Anode	Cathode

■ Internal Connection



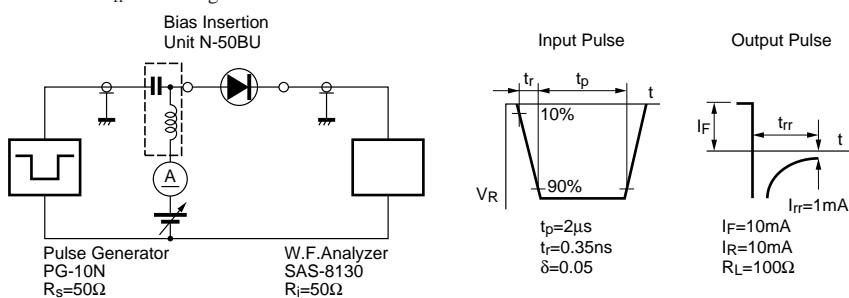
■ Electrical Characteristics (Ta = 25°C)

Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R = 30V$			1	μA
Forward voltage (DC)	V_{F1}	$I_F = 1mA$			0.4	V
	V_{F2}	$I_F = 30mA$			1.0	V
Terminal capacitance	C_t	$V_R = 1V, f = 1MHz$		1.5		pF
Reverse recovery time	t_{rr}^*	$I_F = I_R = 10mA$ $I_{rr} = 1mA, R_L = 100Ω$		1.0		ns
Detection efficiency	η	$V_{in} = 3V_{(peak)}, f = 30MHz$ $R_L = 3.9kΩ, C_L = 10pF$		65		%

Note 1. Schottky barrier diode is sensitive to electric shock (static electricity, etc.). Due attention must be paid on charge of a human body and leakage from the equipment used.

2. Rated input/output frequency : 2000MHz

3. * t_{rr} measuring circuit



■ Marking

Part Number	MA704WA	MA704WK
Symbol		

