

MA724

Silicon epitaxial planer type

For super high-speed switching circuit

For small current rectification

■ Features

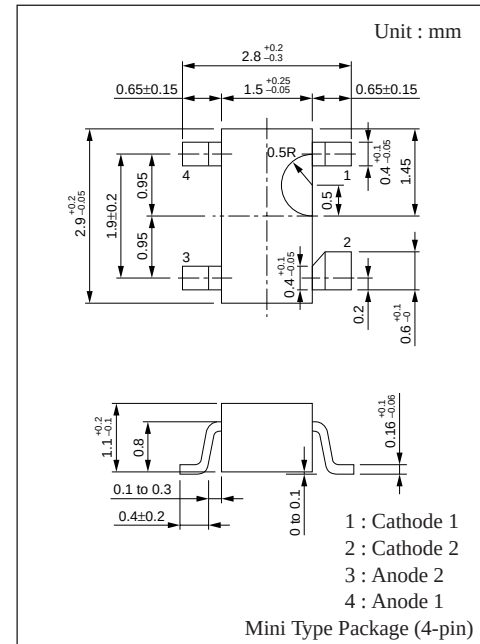
- Two elements are incorporated in MA721 (of a type in the same direction)
- $I_{F(AV)} = 200\text{mA}$ rectification possible
- Superior in reliability

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

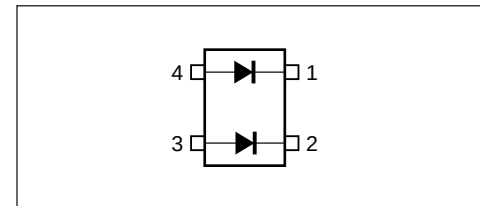
Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	30	V
Repetitive peak reverse voltage	V_{RRM}	30	V
Peak forward current	Single	300	mA
	Double	225*1	
Average forward current	Single	200	mA
	Double	150*1	
Non-repetitive peak forward surge current	Single	1	A
	Double	0.75*1	
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

*1 Use value per chip

*2 50Hz sine wave, one-cycle wave, high value (non-repetitive)



■ Internal Connection



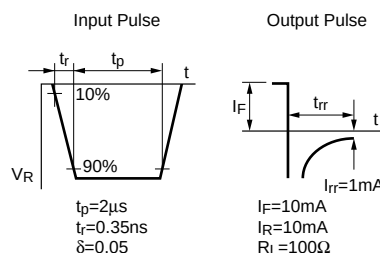
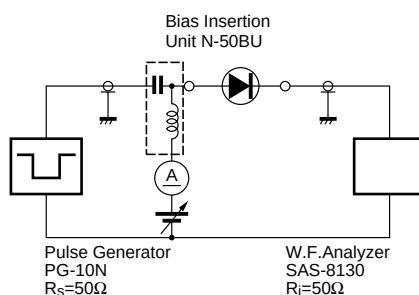
■ Electrical Characteristics ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R = 30\text{V}$			50	μA
Forward voltage (DC)	V_F	$I_F = 200\text{mA}$			0.55	V
Terminal capacitance	C_t	$V_R = 0\text{V}$, $f = 1\text{MHz}$		30		pF
Reverse recovery time	t_{rr}^*	$I_F = I_R = 100\text{mA}$ $I_{rr} = 10\text{mA}$, $R_L = 100\Omega$		3.0		ns

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.

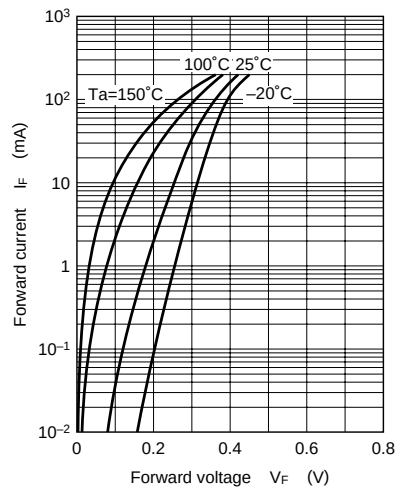
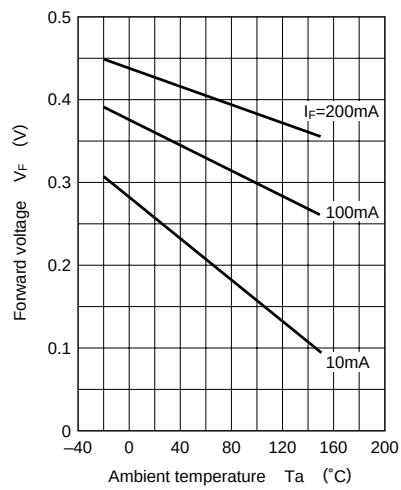
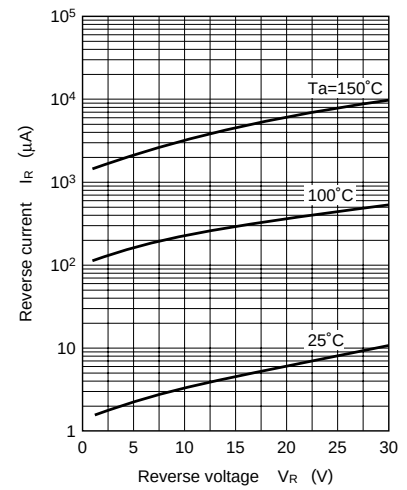
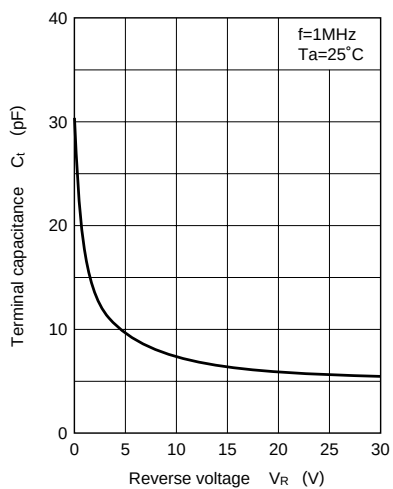
2. Rated input/output frequency : 1000MHz

3. * t_{rr} measuring circuit



■ Marking



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