

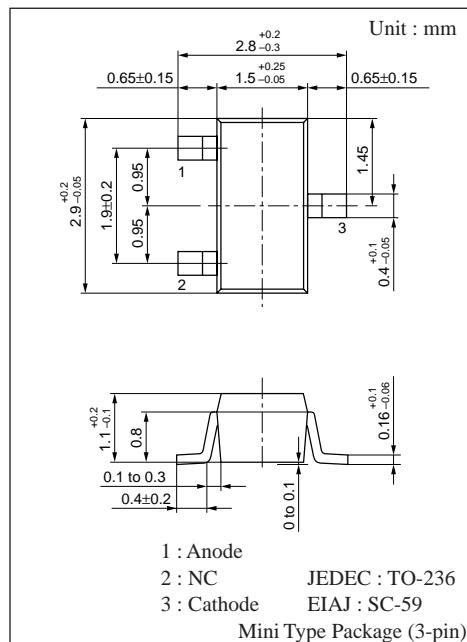
# MA717

## Silicon epitaxial planer type

For the switching circuit  
For wave detection circuit

### ■ Features

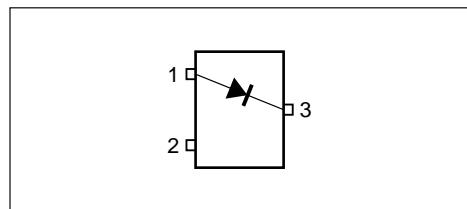
- Low forward rise voltage  $V_F$ , optimum for low-voltage rectification  
(Low  $V_F$  type of MA704A)
- Fast reverse recovery time  $t_{rr}$ , optimum for high-frequency rectification



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

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	$V_R$	30	V
Peak forward current	$I_{FM}$	150	mA
Forward current (DC)	$I_F$	30	mA
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature	$T_{Stg}$	-55 to +125	$^\circ\text{C}$

### ■ Internal Connection

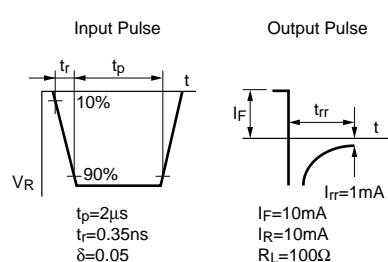
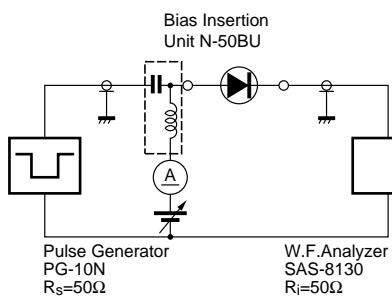


### ■ Electrical Characteristics ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	$I_R$	$V_R = 30\text{V}$			30	$\mu\text{A}$
Forward voltage (DC)	$V_{F1}$	$I_F = 1\text{mA}$			0.3	V
	$V_{F2}$	$I_F = 30\text{mA}$			1.0	V
Terminal capacitance	$C_t$	$V_R = 1\text{V}, f = 1\text{MHz}$		1.5		pF
Reverse recovery time	$t_{rr}^*$	$I_F = I_R = 10\text{mA}$ $I_R = 1\text{mA}, R_L = 100\Omega$		1.0		ns
Detection efficiency	$\eta$	$V_{in} = 3\text{V}_{(\text{peak})}, f = 30\text{MHz}$ $R_L = 3.9\text{k}\Omega, C_L = 10\text{pF}$		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



