MA3X716 (MA716)

Silicon epitaxial planar type

For switching

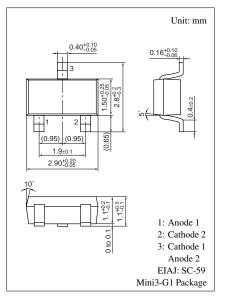
For wave detection

Features

- Two MA3X704A (MA704A) is contained in one package (series connection)
- Low forward voltage V_F, optimum for low voltage rectification
- Optimum for high frequency rectification because of its short reverse recovery time (t_{rr})
- Mini type 3-pin package

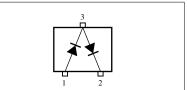
		0 a		
Parameter		Symbol	Rating	Unit
Reverse voltage (DC)		V _R	30	V
Peak forward current	Single	I _{FM}	150	mA
	Series		110	
Forward current (DC)	Single	I _F	30	mA
	Series		20	
Junction temperature		Tj	125	°C
Storage temperature		T _{stg}	-55 to +125	°C

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



Marking Symbol: M1U

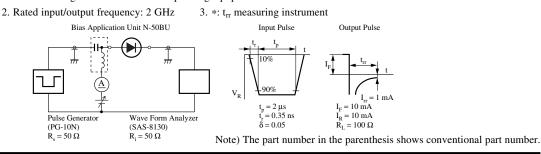
Internal Connection

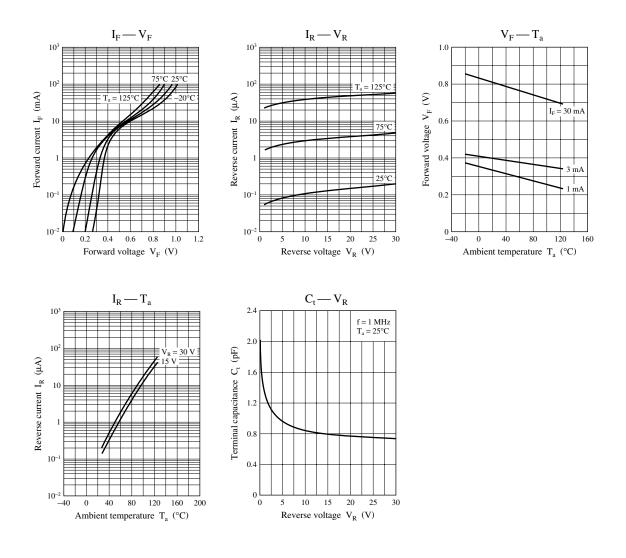


Electrical Characteristics $T_a = 25^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I _R	$V_R = 30 V$			1	μA
Forward voltage (DC)	V _{F1}	I _F = 1 mA			0.4	V
	V _{F2}	$I_F = 30 \text{ mA}$			1.0	
Terminal capacitance	Ct	$V_R = 1 V, f = 1 MHz$		1.5		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 10 \text{ mA}$		1.0		ns
		$I_{rr} = 1 \text{ mA}, R_L = 100 \Omega$				
Detection efficiency	η	$V_{in} = 3 V_{(peak)}$, f = 30 MHz		65		%
		$R_L = 3.9 \text{ k}\Omega, C_L = 10 \text{ pF}$				

Note) 1. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.





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