MA3X717 (MA717)

Silicon epitaxial planar type

For switching

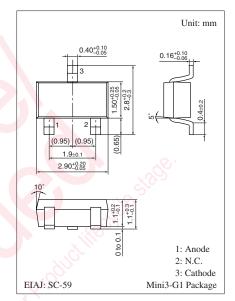
For wave detection

Features

- Low forward voltage V_F , optimum for low voltage rectification
- Low V_F type of MA3X704A (MA704A)
- Optimum for high frequency rectification because of its short reverse recovery time t_{rr}

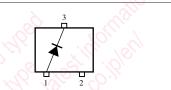
Parameter	Symbol	Rating	Unit	
Reverse voltage	VR	30	V	
Maximum peak reverse voltage	V _{RM}	30	V	
Peak forward current	I _{FM}	150	mA	
Forward current	I _F	30	mA	
Junction temperature	Tj	125	°C	
Storage temperature	T _{stg}	-55 to +125	°C	

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



Marking Symbol: M2M

Internal Connection

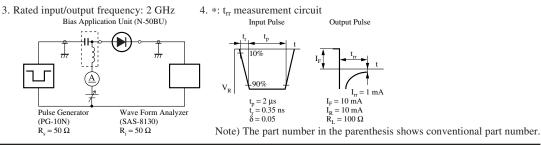


Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

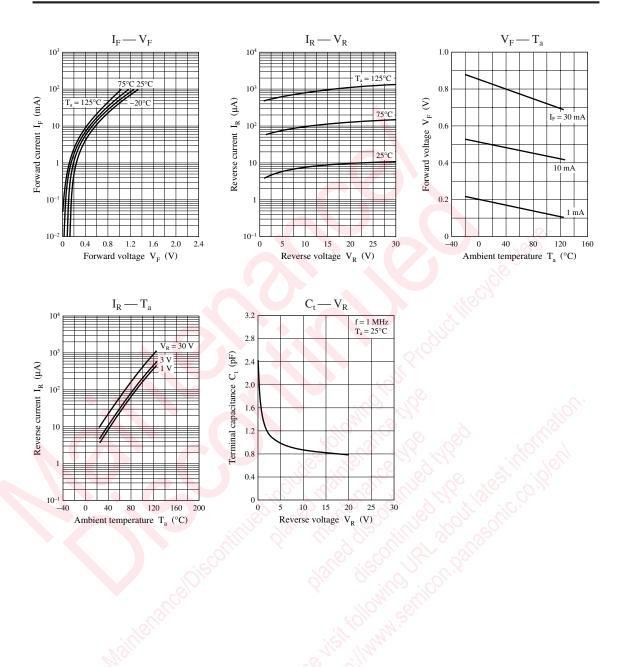
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _{F1}	I _F =1 mA		0-	0.3	V
	V _{F2}	$I_F = 30 \text{ mA}$	20		1.0	
Reverse current	I _R	$V_{\rm R} = 30 {\rm V}$			30	μΑ
Terminal capacitance	Ct	$V_R = 1 V, f = 1 MHz$		1.5		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 10 \text{ mA}$		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. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

2. 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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