Panasonic

MA3X704D (MA704WA), MA3X704E (MA704WK)

Silicon epitaxial planar type

For switching

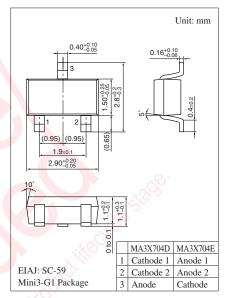
For wave detection

Features

- Two MA3X704A (MA704A) is contained in one package
- Low forward voltage V_F and good wave detection efficiency η
- Small temperature coefficient of forward characteristic
- Small reverse current I_R

5 "						
Parameter		Symbol	Rating	Unit		
Reverse voltage		V _R	30	V		
Maximum peak reverse voltage		V _{RM}	30	V		
Peak forward current	Single	I _{FM}	150	mA		
	Double		110			
Forward current	Single	I _F	30	mA		
	Double		20			
Junction temperature		Tj	125	°C		
Storage temperature		T _{stg}	-55 to +125	C C		

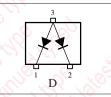
Absolute Maximum Ratings $T_a = 25^{\circ}C$



Marking Symbol

• MA3X704D: M2P • MA3X704E: M2R

Internal Connection



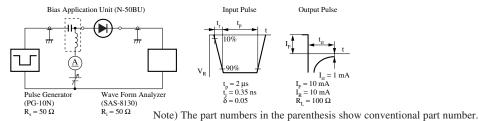


Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

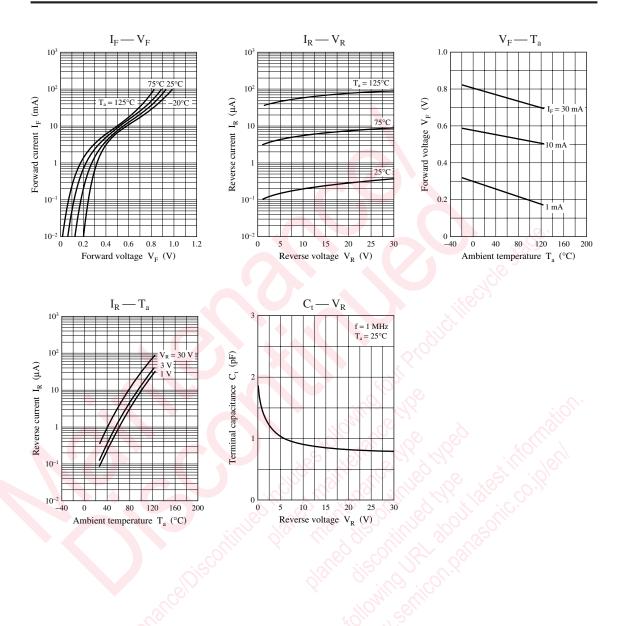
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _{F1}	$I_F = 1 \text{ mA}$		5	0.4	V
	V _{F2}	$I_F = 30 \text{ mA}$	00.		1.0	
Reverse current	IR	$V_{R} = 30 V$			1	μΑ
Terminal capacitance	Ct	$V_R = 1 V, f = 1 MHz$		1.5		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 10 \text{ mA}$		1.0		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.
- 3. Absolute frequency of input and output is 2 GHz.
- 4. *: t_{rr} measurement circuit



Panasonic



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