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

■ Absolute Maximum Ratings $T_a = 25$ °C

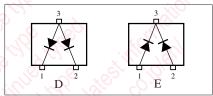
Parameter		Symbol	Rating	Unit	
Reverse voltage		V_R	30	V	
Maximum peak reverse voltage		V_{RM}	30	V	
Peak forward current	Single	I_{FM}	150	mA	
	Double		110		
Forward current	Single	I_{F}	30	mA	
	Double		20	11011	
Junction temperature		T_j	125	°C	
Storage temperature		T _{stg}	-55 to +125	C C	

Unit: mm 0.40^{+0.10}_{-0.05} 0.16^{+0.10}_{-0.06} 0.16^{+0.10}_{-0.06} 10 0.16^{+0.10}_{-0.06} 0.16^{+0.10}_{-0.06} 0.16^{+0.10}_{-0.06} 0.16^{+0.10}_{-0.06} 0.16^{+0.10}_{-0.06} 0.16^{+0.10}_{-0.06} 0.10

Marking Symbol

MA3X704D: M2P
 MA3X704E: M2R

Internal Connection

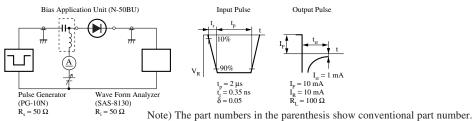


■ Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

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

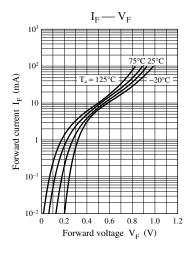
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

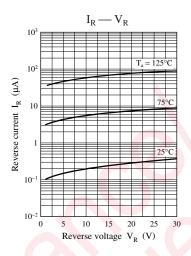
- 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
- 3. Absolute frequency of input and output is 2 GHz.
- 4. *: t_{rr} measurement circuit

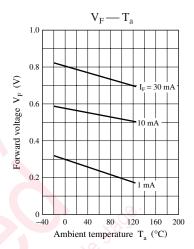


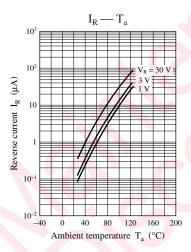
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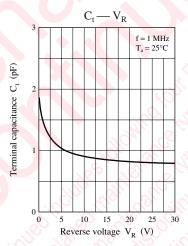
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