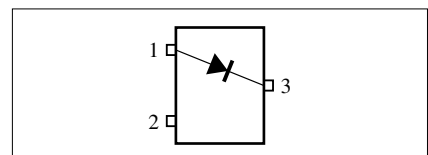


Silicon epitaxial planar type

For wave detection circuit

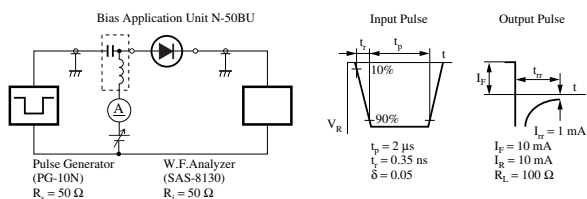
- Low forward rise voltage (V_F) and satisfactory wave detection efficiency (η)
- Small temperature coefficient of forward characteristic
- Extremely low reverse current I_R

Parameter		Symbol	Rating	Unit
Reverse voltage (DC)	MA3X704	V_R	15	V
	MA3X704A		30	
Peak reverse voltage	MA3X704	V_{RM}	15	V
	MA3X704A		30	
Peak forward current		I_{FM}	150	mA
Forward current (DC)		I_F	30	mA
Junction temperature		T_j	125	°C
Storage temperature		T_{stg}	-55 to +125	°C



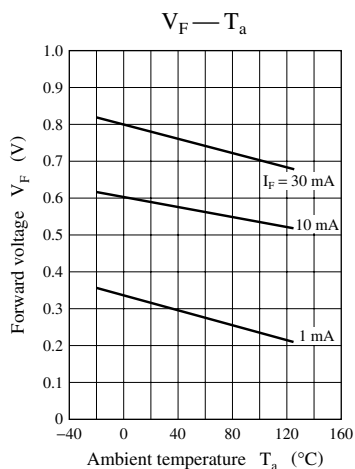
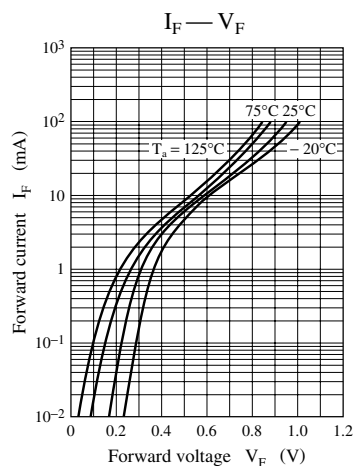
Parameter		Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	MA3X704	I_R	$V_R = 15 \text{ V}$			200	nA
	MA3X704A		$V_R = 30 \text{ V}$			300	
Forward voltage (DC)		V_{F1}	$I_F = 1 \text{ mA}$			0.4	V
		V_{F2}	$I_F = 30 \text{ mA}$			1	V
Terminal capacitance		C_t	$V_R = 1 \text{ V}, f = 1 \text{ MHz}$		1.5		pF
Reverse recovery time*		t_{rr}	$I_F = I_R = 10 \text{ mA}$ $I_{tr} = 1 \text{ mA}, R_L = 100 \Omega$		1		ns
Detection efficiency		η	$V_{in} = 3 \text{ V}_{(peak)}, f = 30 \text{ MHz}$ $R_L = 3.9 \text{ k}\Omega, C_L = 10 \text{ pF}$		65		%

3. *: t_{π} measuring instrument

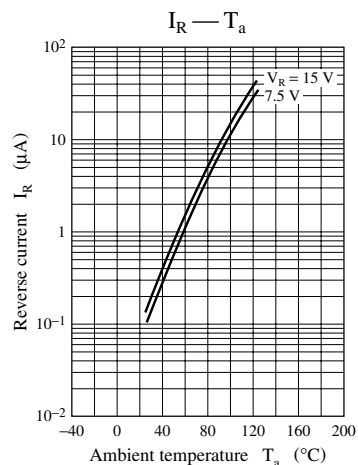
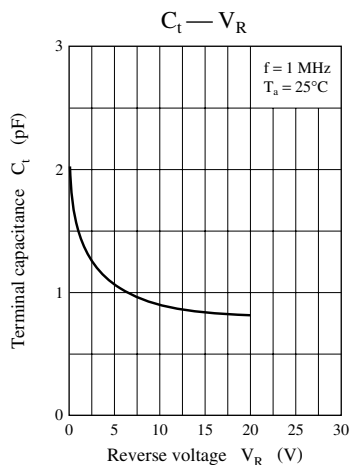
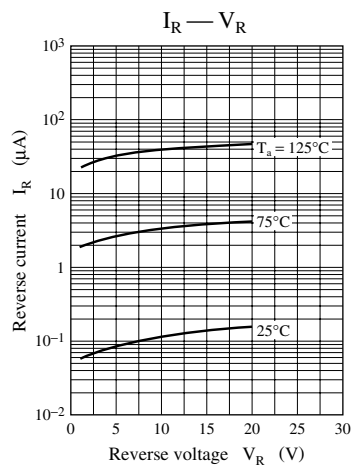


Note) The part number in the parenthesis shows conventional part number.

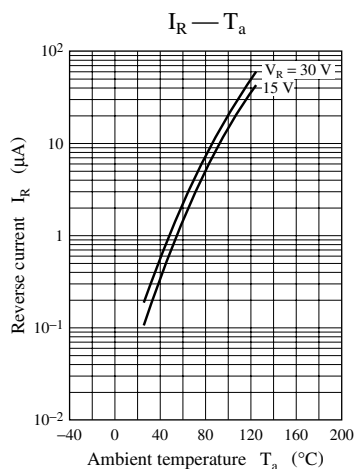
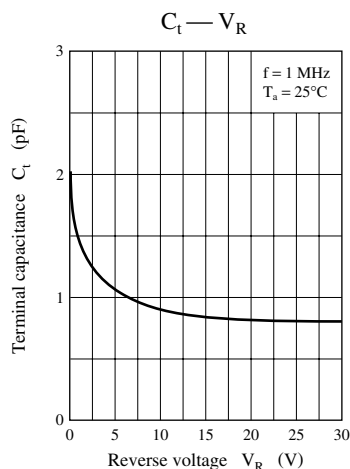
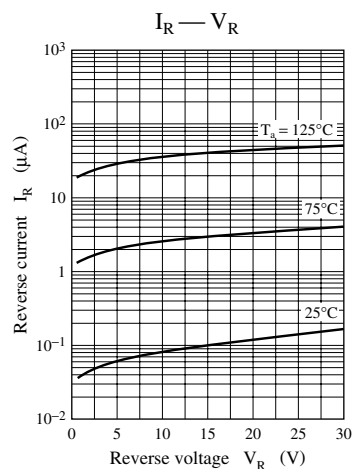
Common characteristics charts



Characteristics charts of MA3X704



Characteristics charts of MA3X704A



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