MA6X718 (MA718)

Silicon epitaxial planar type

For switching

For wave detection

Features

- Three isolated elements are contained in one package, allowing high-density mounting
- Two MA3X704A (MA704A) is contained in one package (of a type in the same direction)
- Forward voltage V_F, optimum for low voltage rectification
- Optimum for high frequency rectification because of its short reverse recovery time t_{rr}

■ Absolute Maximum Ratings T_a = 25°C

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Peak forward current *	I_{FM}	150	mA
Forward current *	I_{F}	30	mA
Junction temperature	T _j	125	°C
Storage temperature	T _{stg}	-55 to +125	S°C .

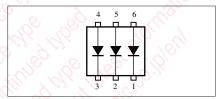
Note) *: Value for single diode

■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

2.90*0.05 1.9±0.1 (0.95), (0.95) 4 5 6 1	1.50 <u>-0.05</u> 2.84-0.2 2.84-0.2 2.84-0.2 2.94-0.2 2.94-0.2			
	1: Cathode 1 2: Cathode 2 3: Cathode 3 4: Anode 3 5: Anode 2 6: Anode 1			
EIAJ : SC-74	Mini6-G1 Package			

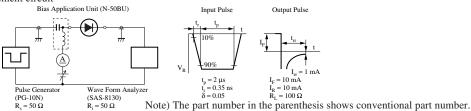
Marking Symbol: M2N

Internal Connection

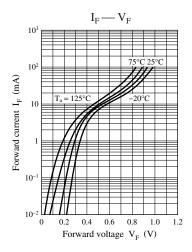


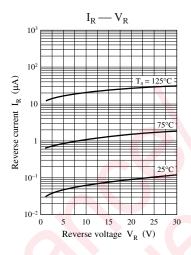
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V_{F1}	$I_F = 1 \text{ mA}$	00		0.4	V
	V_{F2}	$I_F = 30 \text{ mA}$	1.90		1.0	
Reverse current	I_R	$V_R = 30 \text{ V}$			1	μΑ
Terminal capacitance	C _t	$V_R = 1 \text{ V}, f = 1 \text{ MHz}$		1.5		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 10 \text{ mA}$		1.0		ns
· Alb		$I_{rr} = 1 \text{ mA}$, $R_L = 100 \Omega$				
Detection efficiency	η	$V_{IN} = 3 V_{(peak)}$, $f = 30 MHz$		65		%
A.		$R_{L} = 3.9 \text{ k}\Omega, C_{L} = 10 \text{ pF}$				

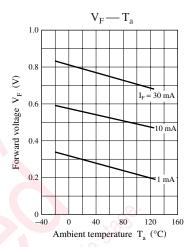
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
 - 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
 - 3. Absolute frequency of input and output is 2 GHz.
 - 4. *: t_{rr} measurement circuit

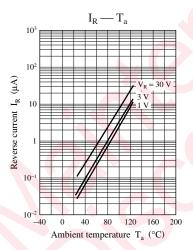


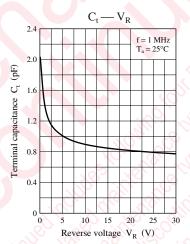
Panasonic











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