MA3X740 (MA740)

Silicon epitaxial planar type

For super high speed switching For small current rectification

■ Features

- Two MA3X721 (MA721) is contained in one package (series connection)
- Forward current (Average) $I_{F(AV)} = 200 \text{ mA}$ (per single diode) rectification is possible

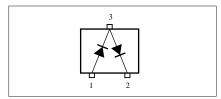
■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter		Symbol	Rating	Unit
Reverse voltage		V _R	30	V
Repetitive peak reverse voltage		V _{RRM}	30	V
Forward current	Single	I _{F(AV)}	200	mA
(Average)	Series		130	
Peak forward	Single	I_{FM}	300	mA
current	Series		220	
Non-repetitive peak	Single	I _{FSM}	1.0	A
forward surge current *	Series		0.7	
Junction temperature		T _j	150	°C
Storage temperature		T_{stg}	-55 to +150	°C

Note) *: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

Marking Symbol: M3C

Internal Connection

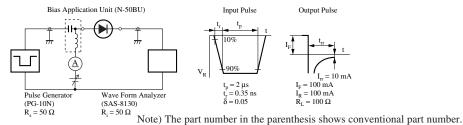


■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

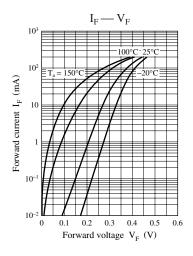
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_F = 200 \text{ mA}$			0.55	V
Reverse current	I_R	$V_R = 30 \text{ V}$			50	μΑ
Terminal capacitance	C _t	$V_R = 0 V, f = 1 MHz$		30		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 100 \text{ mA}$		3.0		ns
		$I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$				

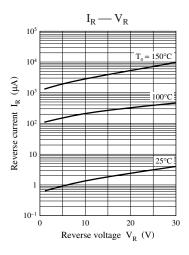
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
 - This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.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

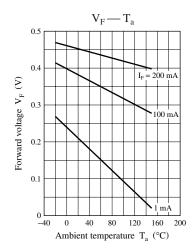
4. *: t_{rr} measurement circuit

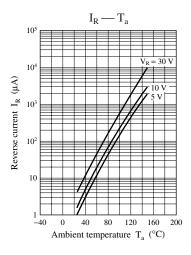


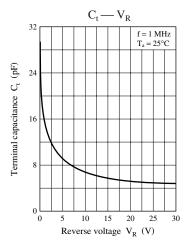
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