MA3X721D, MA3X721E (MA721WA, MA721WK)

Silicon epitaxial planar type

For super-high speed switching circuit
For small current rectification

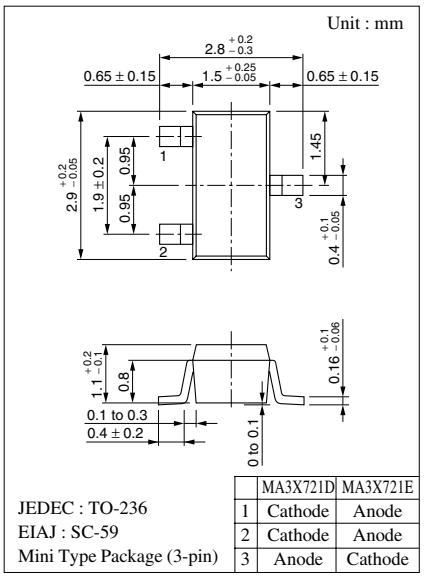
■ Features

- Two MA3X721s are contained in one package
- Allowing to rectify under ($I_{F(AV)}$ = 200 mA) condition (for the single diode)

■ Absolute Maximum Ratings T_a = 25°C

Parameter		Symbol	Rating	Unit
Reverse voltage (DC)		V_R	30	V
Repetitive peak reverse voltage		V_{RRM}	30	V
Peak forward current	Single	I_{FM}	300	mA
	Double*1		220	
Average forward current	Single	$I_{F(AV)}$	200	mA
	Double*1		130	
Non-repetitive peak forward surge current*2	Single	I_{FSM}	1	A
	Double*1		0.7	
Junction temperature		T_j	150	°C
Storage temperature		T_{stg}	−55 to +150	°C

Note) *1 : Value per chip
*2 : The peak-to-peak value in one cycle of 50 Hz sine-wave (non-repetitive)

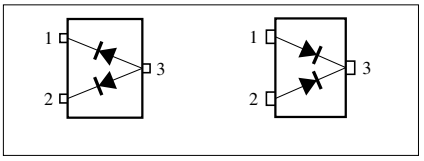


	MA3X721D	MA3X721E
1	Cathode	Anode
2	Cathode	Anode
3	Anode	Cathode

JEDEC : TO-236
EIAJ : SC-59
Mini Type Package (3-pin)

Marking Symbol
- MA3X721D : M3H
- MA3X721E : M3F

Internal Connection



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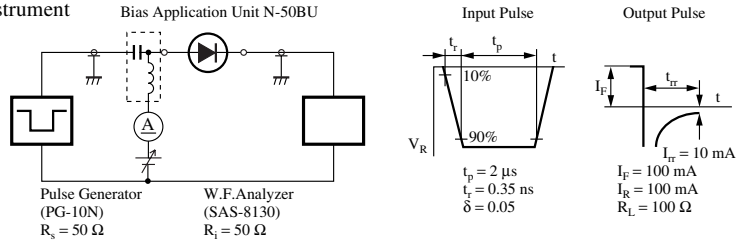
■ Electrical Characteristics T_a = 25°C

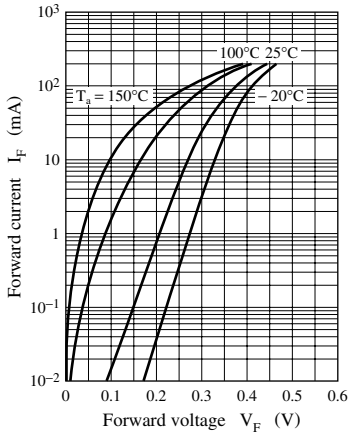
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	I_R	V_R = 30 V			50	μA
Forward voltage (DC)	V_F	I_F = 200 mA			0.55	V
Terminal capacitance	C_t	V_R = 10 V, f = 1 MHz		30		pF
Reverse recovery time*	t_{rr}	I_F = I_R = 100 mA I_{rr} = 10 mA, R_L = 100 Ω		3		ns

Note) 1. Schottky barrier diode 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
2. Rated input/output frequency: 1 000 MHz
3. * : t_{rr} measuring instrument

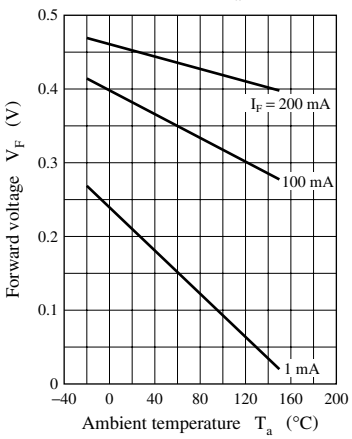


Note) The part number in the parenthesis shows conventional part number.

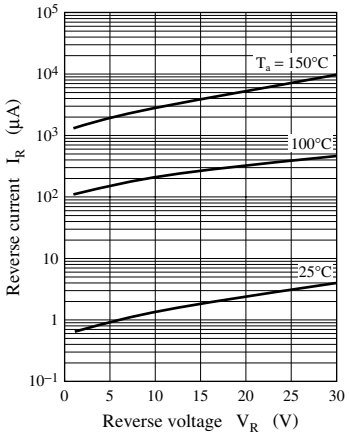
I_F — V_F



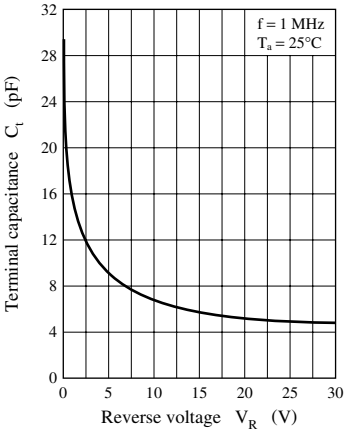
V_F — T_a



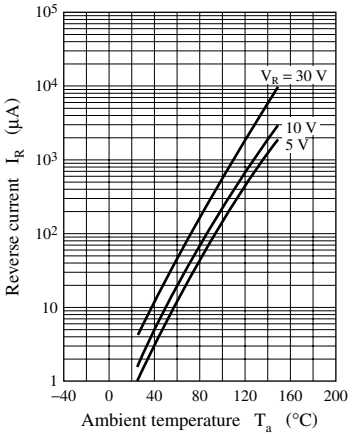
I_R — V_R



C_t — V_R



I_R — T_a



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