

MA3X740 (MA740)

Silicon epitaxial planar type

For super high speed switching circuit
For small current rectification

■ Features

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

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

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

Note) *1 : Value per chip

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

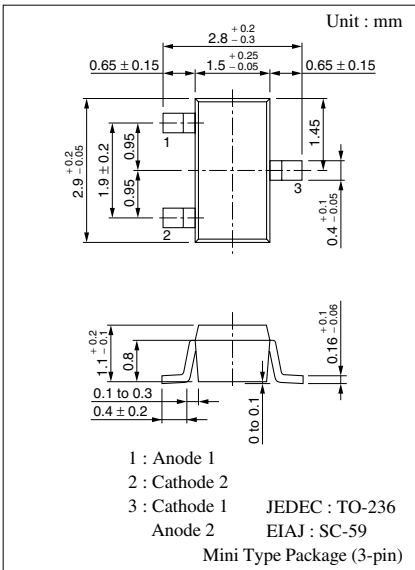
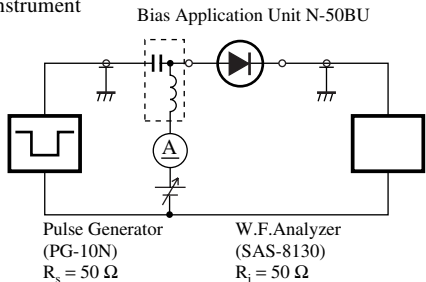
■ Electrical Characteristics $T_a = 25^\circ\text{C}$

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	$V_R = 0$ 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.

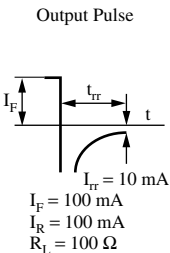
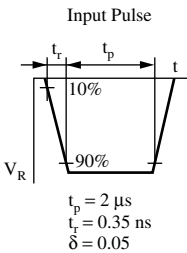
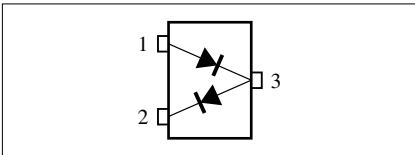
2. Rated input/output frequency: 1 000 MHz

3. * : t_{rr} measuring instrument

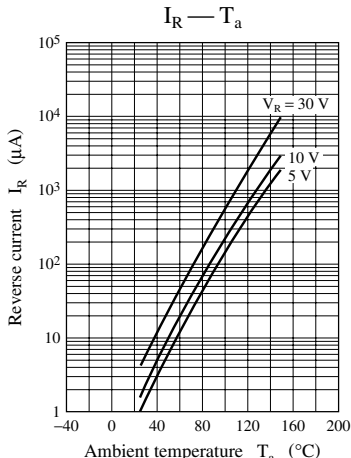
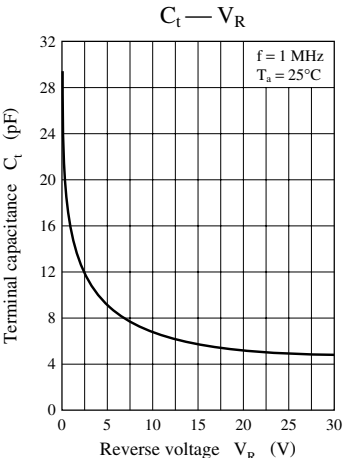
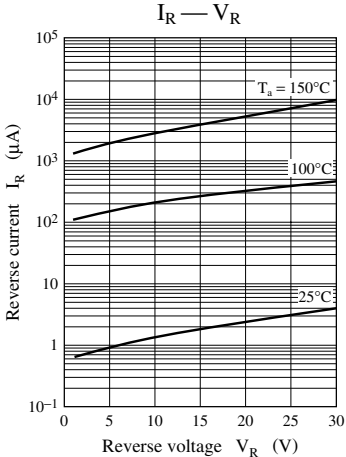
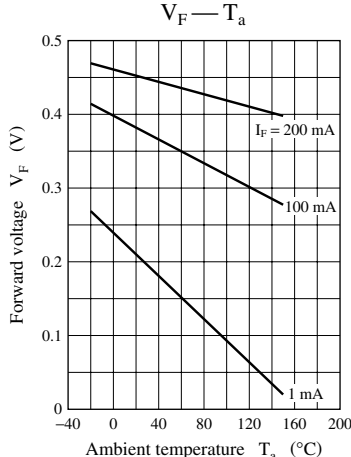
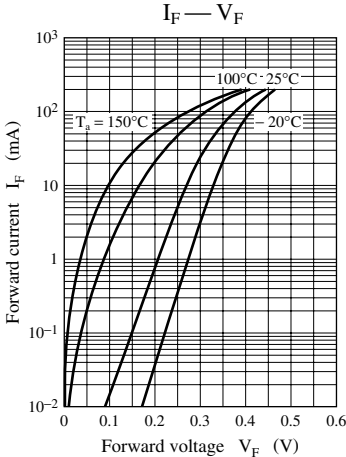


Marking Symbol: M3C

Internal Connection



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



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