

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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MA4X746 (MA746)

Silicon epitaxial planar type

For super high speed switching For small current rectification

Features

- Two isolated elements are contained in one package, allowing high-density mounting
- Forward current (Average) $I_{F(AV)} = 200 \text{ mA}$ and Reverse voltage $V_R < 50 \text{ V}$ are achieved
- Optimum for high frequency rectification because of its short reverse recovery time t_{rr}
- Low forward voltage V_F and good rectification efficiency

■ Absolute Maximum Ratings $T_a = 25$ °C

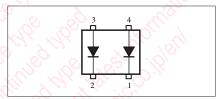
Parameter		Symbol	Rating	Unit
Reverse voltage		V_R	50	V
Repetitive peak reverse voltage		V _{RRM}	50	V
Non-repetitive peak	Single	I_{FSM}	1	A
forward surge current	Double *		0.75	
Peak forward	Single	I_{FM}	300	mA
current	Double *		225	
Forward current	Single	$I_{F(AV)}$	200	mA
(Average)	Double *		150	762 ×6
Junction temperature		T _j	125	°C
Storage temperature		T_{stg}	-55 to +125	°C

Note) *: Value of each diode in double diodes used.

Unit: mm $2.90^{+0.02}_{-0.05}$ 1.9±0.2 (0.95)(0.95).50-0-25 0.60+0.10 0.4 ± 0.2 1: Cathode 1 2: Cathode 2 3: Anode 2 4 : Anode 1 EIAJ: SC-61 Mini4-G1 Package

Marking Symbol: M3M

Internal Connection

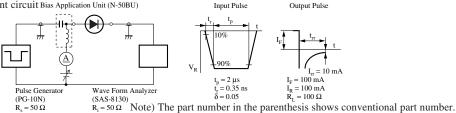


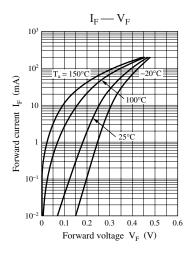
■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

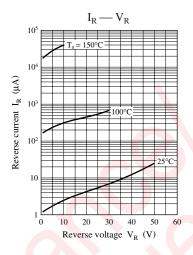
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V_{F1}	I _F = 30 mA			0.36	V
	V_{F2}	$I_F = 200 \text{ mA}$			0.55	
Reverse current	I_R	V _R = 50 V			200	μΑ
Terminal capacitance	C_{t}	$V_R = 0 \text{ V, f} = 1 \text{ MHz}$		30		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 100 \text{ mA}$		3.0		ns
		$I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$				

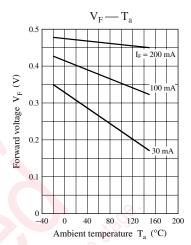
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

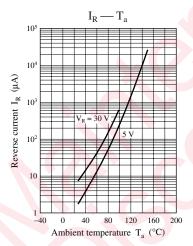
- 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
- 3. Absolute frequency of input and output is 1 GHz.
- 4. *: t_{rr} measurement circuit Bias Application Unit (N-50BU)

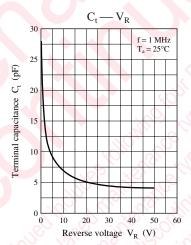












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