Diode Arrays

High-speed switching diode arrays and high voltage-withstand diode arrays are of NICHICON's standard series. They are combined to be conveniently used for both binary and decimal systems. High-speed series is ideal for computer peripherals, control boards and general electronic appliances. Besides, high voltage-withstand series is ideal for plasma displays. relay surge-preventive circuits.

Both of these series are in stock for prompt delivery. Any special requirements with customer's particular circuits will be also welcome. Please consult us for the details.

(Samples for the items listed below are not always available on stock. Please contact our sales office for details together with your specific requirements.)

■ High-speed switching diode array series

Absolute maximum ratings **

Items	Symbol	Ratings
Peak reverse voltage	Vew	40V
DC reverse voltage	Ve	40V
Surge current (1µs)	lfsm	4.0A
Peak forward current	İFM	300mA
Average rectified current	10	100mA
Storage temperature	Tstg	-25~+85℃

* 100mA for simultaneous energizing. * Maximum Current value applicable to each diode

Electrical characteristics

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Items	Symbol	Conditions		Unit			
Hems	Symbol		Min. Typ		Max.		
Reverse current	İR	VR=40V			0.5	μA	
Forward voltage	V _{F1}	IF=10mA		0.7	1.0	٧	
Forward voltage	VF2	IF=50mA		0.79	1.0	٧	
Forward voltage	VF3	IF=100mA		0.85	1.2	٧	
Reverse recovery time	trr	IF=10mA, VR=6V		_	4.0	ns	

Series List

Code	Tuna	Number of	Соттоп	Dimensi	Dimensions (m/m Max.)		Dimensions (m/m Max.)				Dimensions (m/m Max.) Nc.of			Circuit dianan
Code	Туре	diodes	electrode	W	Н	T	n	Circuit diagram						
ZHMA0423	MA423	4	Cathode	:	9	3.5	5	① ①						
ZHMA0424	MA424	,	Anode			3 0.3		2						
ZHMA0425	MA425	8	Cathode	24	9	3.5	9							
ZHMA0426	MA426		Anode			3	0.5		(2)					
ZHMA0427	MA427	10	Cathode	'	9	3.5	11							
ZHMA0428	MA428		Anode	29	23	9	3.5	11	2 0 29 0					
ZHMA0429	MA429	5	Isolated	27	9	3.5	10	3						
ZHMA0430	MA430	4	Isolated	21.5	9	3.5	8	3 3						
ZHMA0431	MA431		Cathode					0 7						
ZHMA0432	MA432	6	Anode	19	9	3.5	7	2 6 6						

Diode Mini-Arrays

Height······5mm Max.

The mounting height of electronic device can be made substantially low-profile and compact.

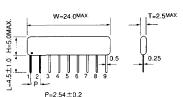
• Thickness 2.5mm Max.

Diode arrays can be placed in a row with 2.54mm pitch, and high density mounting is available at a rate of one diode per 0.1 sq. inch.

Electrical characteristics

		0		1.1-24		
Items	Symbol Conditions		Min.	Тур.	Max.	Unit
Reverse current	ln .	V _R =35V	- T		0.5	μΑ
Forward voltage	VF1	I _F =10mA		0.75	1.0	V
Forward voltage	VF2	Ir=50mA		0.90	1.1	٧
Forward voltage	VF3	lr=100mA	-	0.95	1.2	ν
Reverse recovery time	trr	Ir=10mA, VR=6V			4.0	ns

Drawing



■ High voltage-withstand series

Absolute maximum ratings ※

Items	Symbol	Ratings
Peak reverse voltage	VRM	220V
Reverse DC voltage	VR	200V
Surge current (1sec.)	Is	1A
Peak forward current	IFM	600mA
Average rectified current	la	200mA
Storage temperature	Tstg	-25~+85℃

* Maximum Current value applicable to each diode.

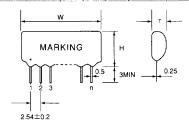
Electrical characteristics

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Symbol	Conditions			Unit	
Symbol		Min.	Тур.		Max.
la	V _R =110V		_	1.0	μΑ
VF	I==50mA		_	1.3	٧
VR	1n=100μA	220	_		٧
	I==I==30mA			100	
Irr	Ru=100Ω	1 -		100	ns
	VF	In	Min. Min.	Min. Typ. T	Nin. Typ. Max. Nin. Typ. Max. Nin.
Series List

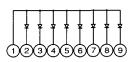
0-4-	Tuna	Number of	er of Common		on Dimensions (m/m Max.)		No.of Pins	Circuit diagram		
Code Type d	diodes	electrode	W	Н	T	n	Circuit diagram			
ZHLA0650	HD-4K	4	Cathode	14	9	3	5	0 0		
ZHLA0651	HD-4A	7	Anode			5	3	② **		
ZHLA0652	HD-8K	8	Cathode	0.4	9	3	9	0		
ZHLA0653	A8-DH	0	Anode	24	24	24	9	3	9	2 2
ZHLA0654	HD-10K	10	Cathode	29	9	3	11	1 0 29		
ZHLA0655	HD-10A	10	Anode	23		3		2 3		
ZHLA0656	HD-4S	4	Isolated	21.5	9	3	8	3		
ZHLA0657	HD-5S	5	Isolated	27	9	3	10	3 6 9		

Drawing



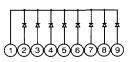
Circuit diagram

LA1460 (Code ZHLA 1460)





LA1461 (Code ZHLA 1461)



Ta:+25℃

HYBRID I.C.s "Hi-Net"

Hybrid IC for Control Circuit of Power Supply

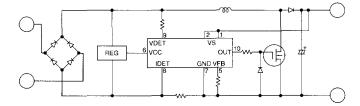
Higher Harmonics (MA6400B)

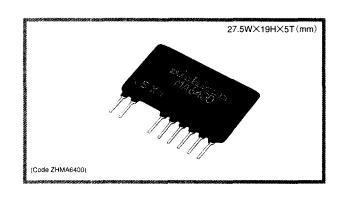
Feature

This control circuit suited for power supplies and inverters for the higher harmonics application.

Very high power factor improvement can be obtained by boosting chopper circuitry.

■ Applied circuit





Control Circuit of Power Supply (MA2789)

Feature

This is control circuit of buck converter.

This acts as an output of $\pm 5\mathrm{V}$ power supply, when coil, transistor etc. are connected.

