

# NINGBO KLS ELECTRONIC CO.,LTD.

## 1N5391 THRU 1N5399

# **General Purpose Rectifier**





- High efficiency
- High current capability
- High reliability
- High surge current capability
- Low power loss
- Glass passivated chip junction
- Solder dip 275 °C max. 7 s, per JESD 22-B106

#### **Typical Applications**

For use in general purpose rectification of power supplies, inverters, converters, and freewheeling diodes for consumer, and telecommunication.

#### **Mechanical Data**

• Package: DO-204AC(DO-15)

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

orio-compliant

• Terminals: Tin plated leads, solderable per J-STD-

002 and JESD22-B102

• Polarity:Color band denotes cathode end

■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	1N5391	1N5392	1N5393	1N5395	1N5397	1N5398	1N5399
Device marking code									
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	V <sub>RMS</sub>	٧	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V <sub>DC</sub>	V	50	100	200	400	600	800	1000
Average Forward Current @60Hz sine wave, Resistance load, Ta =75°C	I <sub>F(AV)</sub>	Α	1.5						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C	<b>I</b> =	A	50						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	IFSM	A	100						
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l²t	A <sup>2</sup> s	10.375						
Typical junction capacitance @Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	Cj	pF	13						
Storage Temperature	T <sub>stg</sub>	$^{\circ}$	-55 ~ +150						
Junction Temperature	Tj	$^{\circ}$	-55 ~ <b>+</b> 150						

#### ■Electrical Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

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PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	1N5391	1N5392	1N5393	1N5395	1N5397	1N5398	1N5399
Maximum instantaneous forward voltage drop per diode	VF	<b>V</b>	I <sub>FM</sub> =1.5A	1.1						
Maximum DC reverse current at rated DC blocking voltage per	IR	μA	T <sub>j</sub> =25°C				2.5			
diode	ır.	μΑ	T <sub>j</sub> =125°C	50						

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## **■Thermal Characteristics** (T<sub>a</sub>=25°C Unless otherwise specified)

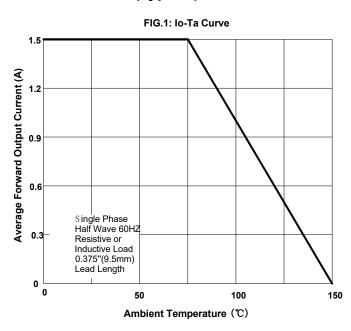
## 1N5391G THRU 1N5399G

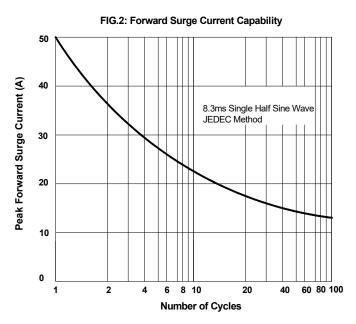
PARAMETER	SYMBOL	UNIT	1N5391	1N5392	1N5393	1N5395	1N5397	1N5398	1N5399
Typical Thermal Resistance	R <sub>eJ-A</sub>	°C/W				50			

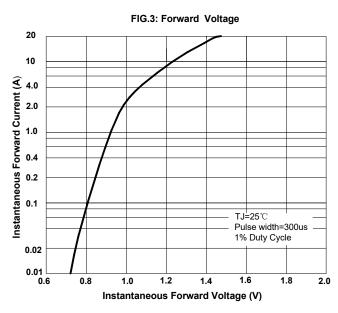
**■**Ordering Information (Example)

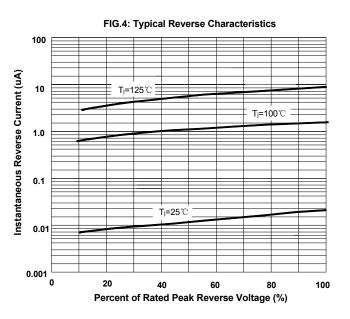
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
1N5391~1N5399	D1	Approximate 0.38	3000	3000	30000	Таре
1N5391~1N5399	C1	Approximate 0.38	500	500	25000	Bulk

#### **■** Characteristics (Typical)







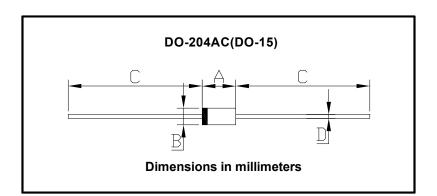


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# NINGBO KLS ELECTRONIC CO.,LTD.

#### ■ Outline Dimensions



## 1N5391 THRU 1N5399

DO-204AC(DO-15)						
Dim	Min	Max				
Α	5.80	7.60				
В	2.60	3.60				
С	25.4	1				
D	0.70	0.90				

### 1N5391 THRU 1N5399

#### **Disclaimer**

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