

NINGBO KLS ELECTRONIC CO.,LTD.

BY251 THRU BY255

General Purpose Rectifier

ROHS



- 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-201AD(DO-27)

Molding compound meets UL 94 V-0 flammability rating, RoHS-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	BY251	BY252	BY253	BY254	BY255
Device marking code							
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	200	400	600	800	1300
Maximum RMS Voltage	V _{RMS}	V	140	280	420	560	910
Maximum DC blocking Voltage	V _{DC}	V	200	400	600	800	1300
Average Forward Current @60Hz sine wave, Resistance load, Ta =70°C	I _{F(AV)}	А	3.0				
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C			200				
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃	IFSM	А	360				
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	I ² t	A ² s	166				
Typical junction capacitance @Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	Cj	pF	40 31			31	
Storage Temperature	T _{stg}	$^{\circ}$	-55 ~ +150				
Junction Temperature	Tj	$^{\circ}$	-55 ~ + 150				

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

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PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	BY251	BY252	BY253	BY254	BY255
Maximum instantaneous forward voltage drop per diode	VF	>	I _{FM} =3.0A		1.0			
Maximum DC reverse current at rated DC blocking voltage per	lR	μA	T _j =25°C			2.5		
diode			T _j =125°C	100				

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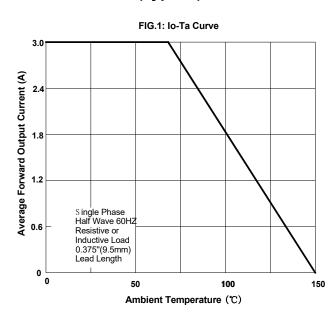
■Thermal Characteristics (T_a=25°C Unless otherwise specified)

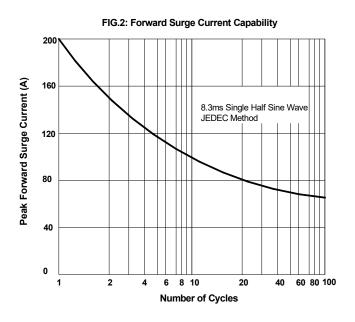
PARAMETER	SYMBOL	UNIT	BY251	BY252	BY253	BY254	BY255
Typical Thermal Resistance	$R_{\theta J-A}$	°C/W			30		

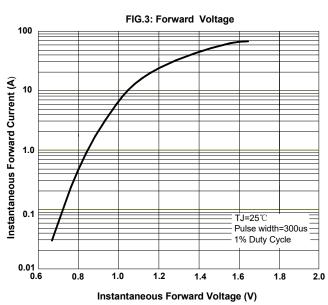
■Ordering Information (Example)

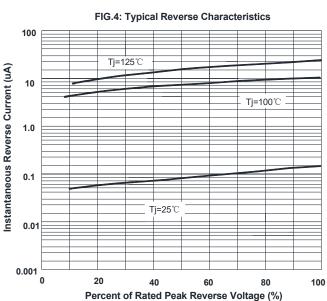
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BY251~BY255	D1	Approximate 1.05	1250	1250	12500	Таре
BY251~BY255	C1	Approximate 1.05	250	250	12500	Bulk

■ Characteristics (Typical)





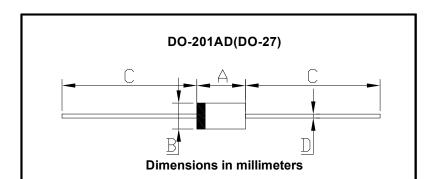






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■ Outline Dimensions



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DO-201AD(DO-27)					
Dim	Min	Max			
Α	8.50	9.50			
В	5.00	5.60			
С	25.4	1			
D	1.20	1.30			

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Disclaimer

The information presented in this document is for reference only. Ningbo KLS Electronic Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), KLS or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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