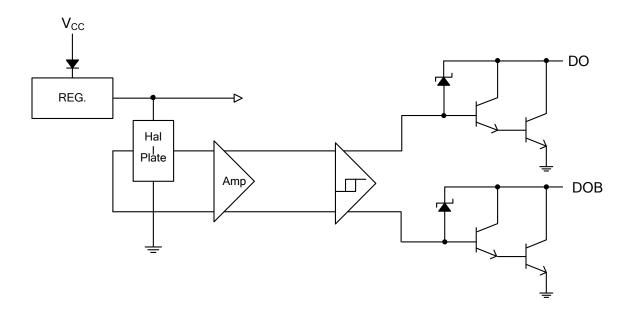


Pin Descriptions

Pin Name	P/I/O	Pin #	Description
V _{CC}	Р	1	Power Supply Input
DO	0	2	Output Pin
DOB	0	3	Output Pin
GND	Р	4	Ground

Functional Block Diagram



Absolute Maximum Ratings (@T_A = +25°C, unless otherwise specified.)

Symbol	Parameter	Rating	Unit
V _{CC}	Supply Voltage	28	V
V _{out (off)}	Output "OFF " Voltage	28	V
I _{O (con)}		400 (Note 5)	mA
I _{O (hold)}	Output "ON" Current	500	mA
I _{O (peak)}		700	mA
В	Magnetic Flux Density	Unlimited	Gauss
T _{ST}	Storage Temperature Range	-65 to +150	°C
P_{D}	Power Dissipation (Note 6)	550	mW
θ_{JA}	Thermal Resistance Junction-to-Ambient (SIP-4)	227	°C/W
θ_{JC}	Thermal Resistance Junction-to-Case (SIP-4)	49	°C/W



Recommended Operating Conditions (@T_A = +25°C, unless otherwise specified.)

Symbol	Characteristic	Conditions	Min	Max	Unit
V _{CC}	Supply Voltage	Operating	4	28	V
T _A	Operating Ambient Temperature (Note 7)	Operating	-20	85	°C

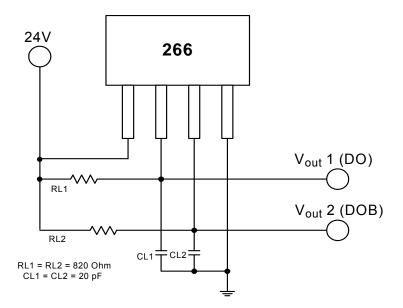
Notes:

- 4. This application circuit can't protect reverse coil current if power is connecting reverse.
- 5. I_{o (con)} is 150 mA at +85°C.
 6. See Performance Characteristics for other conditions.
- 7. Shall not exceed P_{D} and Safety Operation Area.

Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Symbol	Characteristic	Conditions	Min	Тур.	Max	Unit
Vz	Output Zener Breakdown	Output Turn off	54	62	70	V
V _{CE} (SAT)	Output Saturation Voltage	V _{CC} = 24V, I _C = 400mA	_	1.1	1.5	V
I _{CEX}	Output Leakage Current	V _{CE} = 24V, V _{CC} = 24V	_	< 0.1	10	μΑ
I _{CC}	Supply Current	V _{CC} = 24V, Output Open	_	5	10	mA
tr	Output Rise Time	V _{CC} = 24V, RL = 820Ω, CL = 20pF	_	1.0	5	μs
tf	Output Falling Time	V_{CC} = 24V, RL = 820 Ω , CL = 20pF	_	1.0	1.5	μs
Δt	Switch Time Differential	V _{CC} = 24V, RL = 820Ω, CL = 20pF	_	3.0	10	μs

Test Circuit



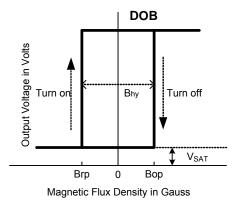


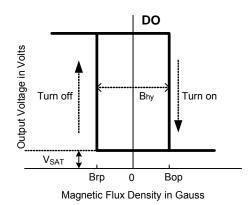
Magnetic Characteristics

A grade	A grade (1mT = 10 Gauss)							
Symbol	Characteristic	Min	Тур.	Max	Unit			
Вор	Operation Point	10	_	70	Gauss			
Brp	Release Point	-70	_	-10	Gauss			
Bhy	Hysteresis	_	80	_	Gauss			

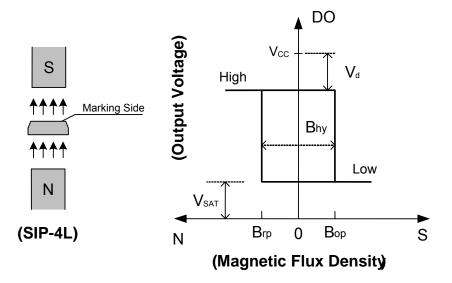
B grade

Symbol	Characteristic	Min	Тур.	Max	Unit
Вор	Operation Point	_		100	Gauss
Brp	Release Point	-100			Gauss
Bhy	Hysteresis	_	80		Gauss





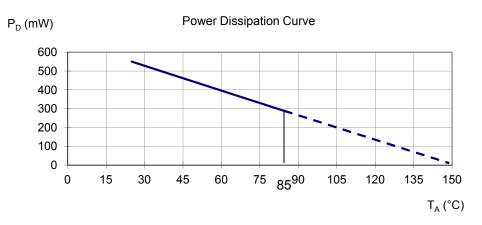
Operation Characteristics



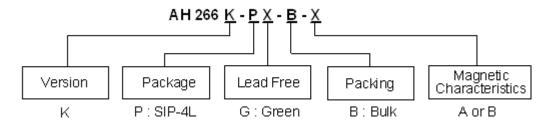


Performance Characteristics

T _A (°C)	25	50	60	70	80	85	90	95	100
P _D (mW)	550	440	396	352	308	286	264	242	220
T _A (°C)	105	110	115	120	125	130	135	140	150
P _D (mW)	198	176	154	132	110	88	66	44	0



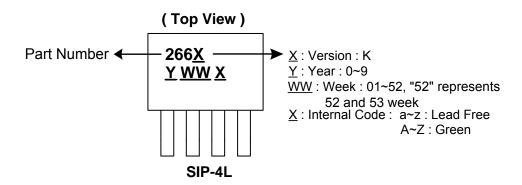
Ordering Information



	Package	Packaging		Bulk	Magnetic
Device	Code	(Note 8)	Quantity	Part Number Suffix	Characteristics
AH266K-PG-B-A	Р	SIP-4	1000	-B	Α
AH266K-PG-B-B	Р	SIP-4	1000	-B	В

Note: 8. For packaging details, go to our website at http://www.diodes.com/products/packages.html

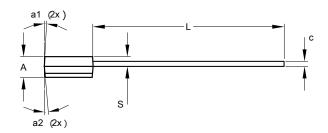
Marking Information

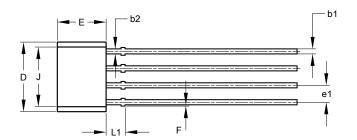


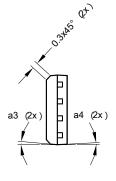


Package Outline Dimensions (All dimensions in mm.)

(1) Package type: SIP-4L

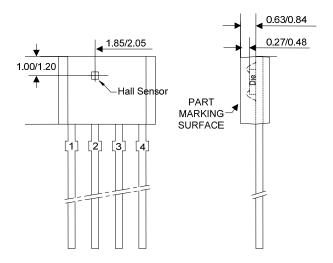






	SIP-4								
Dim	Dim Min Max Typ								
Α	1.45	1.65	1.55						
b1	0.38	0.44	0.40						
b2	ı	1	0.48						
C	0.35	0.45	0.40						
D	5.12	5.32	5.22						
e1	1.24	1.30	1.27						
Е	3.55	3.75	3.65						
F	0.00	0.20	-						
J	4.10	4.30	4.20						
┙	14.00	14.60	14.30						
L1	1.32	1.52	1.42						
S	0.63	0.83	0.73						
a1	- 1	5°	3°						
a2	4°	7°	5°						
a3	4°	7°	5°						
a4	-	5°	3°						
All	Dimens	ions in	mm						

Min/Max (in mm)





IMPORTANT NOTICE

DIODES INCORPORATED MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH REGARDS TO THIS DOCUMENT, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE (AND THEIR EQUIVALENTS UNDER THE LAWS OF ANY JURISDICTION).

Diodes Incorporated and its subsidiaries reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to this document and any product described herein. Diodes Incorporated does not assume any liability arising out of the application or use of this document or any product described herein; neither does Diodes Incorporated convey any license under its patent or trademark rights, nor the rights of others. Any Customer or user of this document or products described herein in such applications shall assume all risks of such use and will agree to hold Diodes Incorporated and all the companies whose products are represented on Diodes Incorporated website, harmless against all damages.

Diodes Incorporated does not warrant or accept any liability whatsoever in respect of any products purchased through unauthorized sales channel. Should Customers purchase or use Diodes Incorporated products for any unintended or unauthorized application, Customers shall indemnify and hold Diodes Incorporated and its representatives harmless against all claims, damages, expenses, and attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized application.

Products described herein may be covered by one or more United States, international or foreign patents pending. Product names and markings noted herein may also be covered by one or more United States, international or foreign trademarks.

This document is written in English but may be translated into multiple languages for reference. Only the English version of this document is the final and determinative format released by Diodes Incorporated.

LIFE SUPPORT

Diodes Incorporated products are specifically not authorized for use as critical components in life support devices or systems without the express written approval of the Chief Executive Officer of Diodes Incorporated. As used herein:

- A. Life support devices or systems are devices or systems which:
 - 1. are intended to implant into the body, or
 - 2. support or sustain life and whose failure to perform when properly used in accordance with instructions for use provided in the labeling can be reasonably expected to result in significant injury to the user.
- B. A critical component is any component in a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or to affect its safety or effectiveness.

Customers represent that they have all necessary expertise in the safety and regulatory ramifications of their life support devices or systems, and acknowledge and agree that they are solely responsible for all legal, regulatory and safety-related requirements concerning their products and any use of Diodes Incorporated products in such safety-critical, life support devices or systems, notwithstanding any devices- or systems-related information or support that may be provided by Diodes Incorporated. Further, Customers must fully indemnify Diodes Incorporated and its representatives against any damages arising out of the use of Diodes Incorporated products in such safety-critical, life support devices or systems.

Copyright © 2013, Diodes Incorporated

www.diodes.com