

KDB22S THRU KDB225S

SINGLE PHASE 2.0 AMP SURFACE MOUNT SCHOTTKY BRIDGE RECTIFIER

Features

- High current capacity,low VF
- · Low Power Loss, High Efficiency
- . Ideally Suited for Automatic Assembly
- For Use in Low Voltage Application
- Plastic Case Material has UL Flammability Classification Rating 94V-0

Mechanical Data

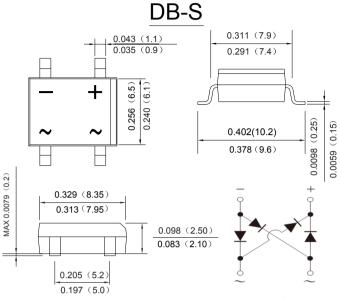
· Case: DB-S, molded plastic

 Terminals: plated leads solderable per MIL-STD-202, Method 208

· Polarity: as marked on case

Mounting position: AnyMarking: type number

· Lead Free: For RoHS / Lead Free Version



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	KDB 22S	KDB 23S	KDB 24S	KDB 245S	KDB 25S	KDB 26S	KDB 28S	KDB 210S	KDB 215S	KDB 220S	KDB 225S	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM												
	VRWM	20	30	40	45	50	60	80	100	150	200	250	V
	VDC												
RMS Reverse Voltage	VRMS	14	21	28	31	35	42	56	70	105	140	175	V
Average Rectified Output Current (Note 1)@Tc=100℃	IF(AV)	2.0											Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	60										А	
I ² t Rating for Fusing (t < 8.3ms)	l²t	14.94											A ² s
Forward Voltage per element @IF=2.0A	VFM	0.55			0.	7	0.6	35	0.9)	0.92	٧	
Peak Reverse Current @T _A =25℃ At Rated DC Blocking Voltage @T _A =100℃	lr	0.1 0.05											mA
		10 5											
Typical Junction Capacitance per leg (Note 2)	CJ	28											pF
Typical Thermal Resistance per leg	RөJA	75											°C/W
	Røjl	20											
Operating and Storage Temperature Range	TJ,TsTG	-55to+150										$^{\circ}$ C	

Note:1. Mounted on glass epoxy PC board with 1.3mm² solder pad. 2.Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

version:02 1 of 3 www.dyelec.com



KDB22S THRU KDB225S

Fig. 1 Output Current Derating Curve

Property of the property

Fig. 2 Typical Forward Characteristics (per leg)

Fig. 3 Maximum Peak Forward Surge Current (per leg)

BY AND BY AN

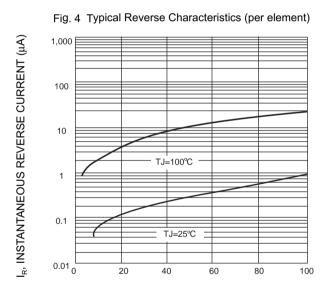
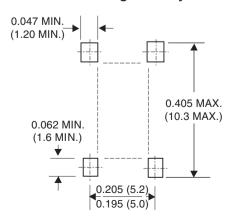


Fig. 5 Mounting Pad Layout

NUMBER OF CYCLES AT 60 Hz



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



KDB22S THRU KDB225S

Important Notice and Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from DIYI.
- DIYI reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.
- DIYI disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- DIYI does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the here in document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications.
 - DIYI makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown here in are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own ris k andagree to fully indemnify DIYI for any damages resulting from such improper use or sale.
- Since DIYI uses lot number as the tracking base, please provide the lot number for tracking when complaining.

version:02 3 of 3 www.dyelec.com