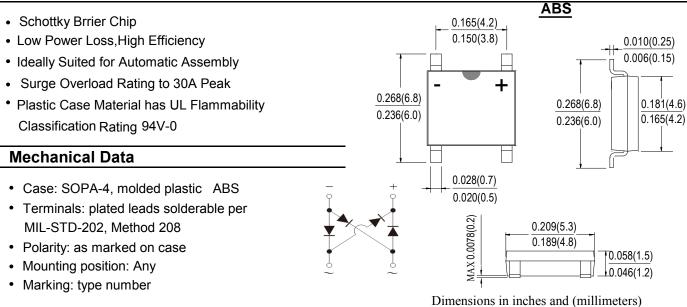


KABS12 THRU KABS125

SINGLE PHASE1.0 AMP SURFACE MOUNTSCHOTTKY BRIDGE RECTIFIER

Features



Maximum Ratings and Electrical Characteristics

Rating at 25° C ambient temperature unless otherwise specified. Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

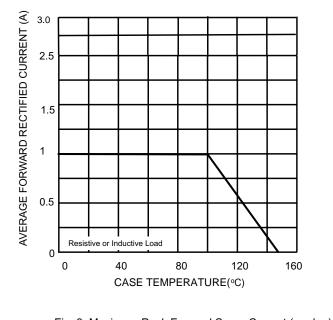
TYPE NUMBER	SYMBOL	KABS 12	KABS 13	KABS 14	KABS 145	KABS 15	KABS 16	KABS 18	KABS 110	KABS 115	KABS 120	KABS 125	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm	20	30	40	45	50	60	80	100	150	200	250	v
	Vrwm												
	VDC												
RMS Reverse Voltage	Vrms	14	21	28	31	35	42	56	70	135	140	175	V
Average Rectified Output Current @Tc =100°C	IF(AV)	1.0										А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Іғѕм	30											A
Rating for fusing (t<8.3ms)	l ² t	3.74										A ² s	
Forward Voltage per element @IF=1.0A	Vfm	0.5				0.7	7	0.	85	0	.90	0.92	V
Peak Reverse Current@TA =25℃At Rated DC Blocking Voltage@TA =100 ℃	lr	0.1 0.05									•	mA	
		10 5											
Typical Thermal Resistance per leg (Note 1)	Reja	50											°C/W
	Rejl	10											
Operating junction temperature range	TJ	-55to+150										°C	
Operating and Storage Temperature Range	Тѕтс	-55to+150										°C	

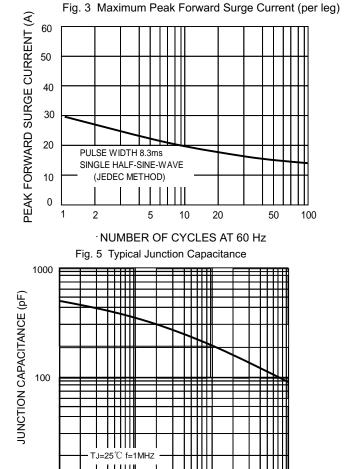
Note:1.Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



KABS12 THRU KABS125







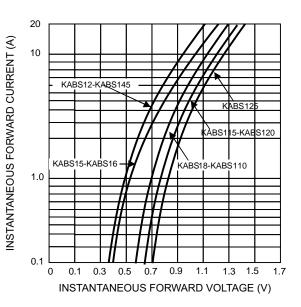
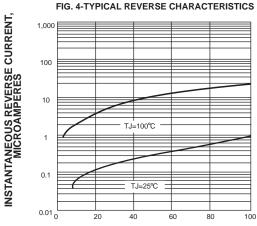
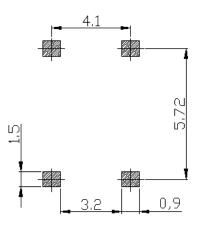


Fig. 2 Typical Forward Characteristics (per leg)



PERCENT OF PEAK REVERSE VOLTAGE,%

ABS PAD LAYOUT



10

0.1

1

4

REVERSE VOLTAGE (V)

10

100



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 herein 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 herein 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 risk and agree 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.