

KABF32 THRU KABF325

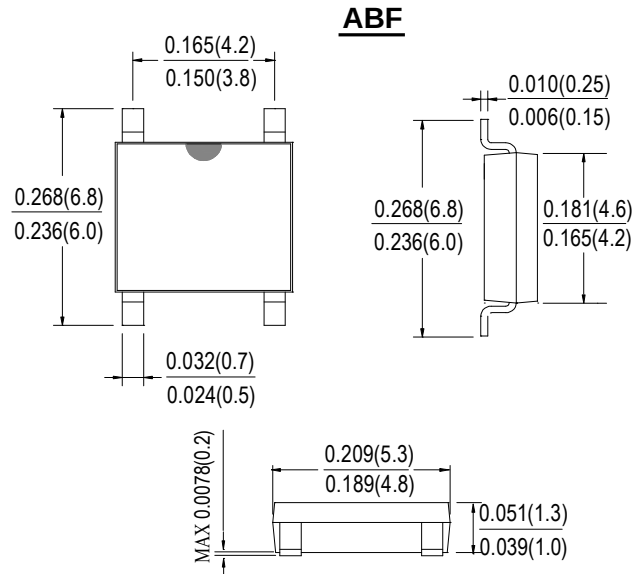
SINGLE PHASE 3.0AMP SURFACE MOUNT SCHOTTKY BRIDGE RECTIFIER

Features

- Schottky Brrier Chip
- Low Power Loss,High Efficiency
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 80A Peak
- Plastic Case Material has UL Flammability Classification Rating 94V-0

Mechanical Data

- Case: SOPA-4, molded plastic
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting position: Any
- Marking: type number



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	KABF 32	KABF 33	KABF 34	KABF 345	KABF 35	KABF 36	KABF 38	KABF 310	KABF 315	KABF 320	KABF 325	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	20	30	40	45	50	60	80	100	150	200	250	V
Working Peak Reverse Voltage	V _{RWM}												
DC Blocking Voltage	V _{DC}												
RMS Reverse Voltage	V _{RMS}	14	21	28	31	35	42	56	70	105	140	175	V
Average Rectified Output Current @T _A =100℃	I _O	3.0											A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	80											A
Forward Voltage per element @IF=3.0A	V _{FM}	0.5				0.7		0.85		0.90		0.92	V
Peak Reverse Current @T _A =25℃ At Rated DC Blocking Voltage @T _A =100℃	I _R	0.1						0.05					mA
		10						5					
Typical Thermal Resistance per leg (Note 1)	R _{θJA}	50											℃/W
	R _{θJL}	10											
Operating junction temperature range	T _J	-55to+150											℃
Operating and Storage Temperature Range	T _{STG}	-55to+150											℃

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

Fig. 1 Output Current Derating Curve

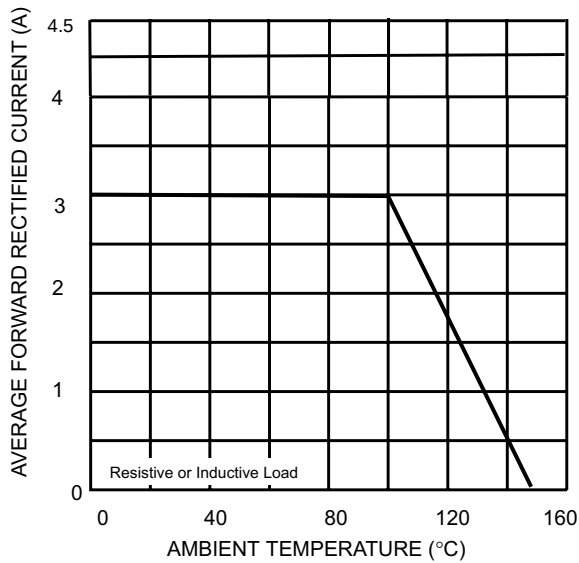


Fig. 2 Typical Forward Characteristics (per leg)

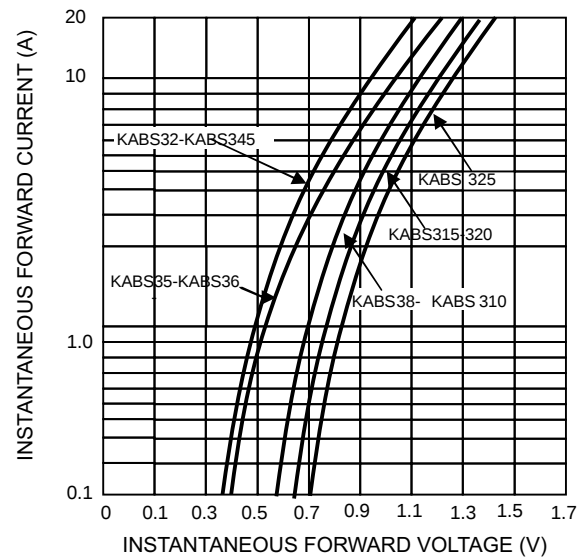


Fig. 3 Maximum Peak Forward Surge Current (per leg)

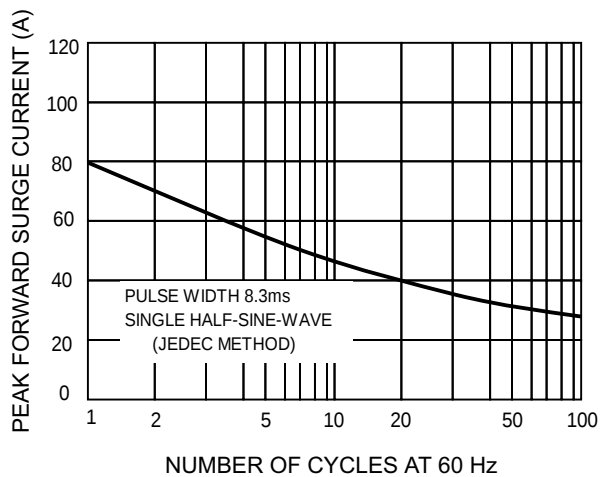


Fig. 4 Typical Reverse Characteristics (per element)

