

KABS22 THRU KABS225

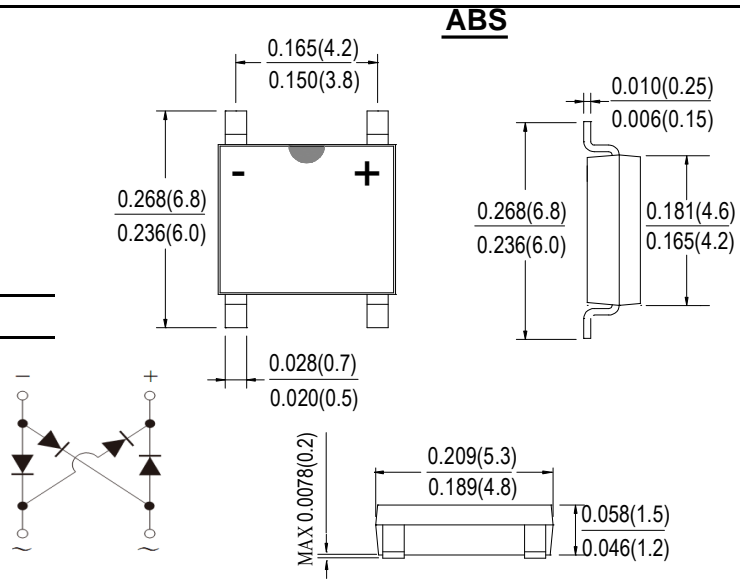
SINGLE PHASE 2.0 AMP SURFACE MOUNT SCHOTTKY BRIDGE RECTIFIER

Features

- Schottky Briier Chip
- Low Power Loss,High Efficiency
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 50A Peak
- Plastic Case Material has UL Flammability Classification Rating 94V-0

Mechanical Data

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



Dimensions in inches and (millimeters)

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 22	KABS 23	KABS 24	KABS 245	KABS 25	KABS 26	KABS 28	KABS 210	KABS 215	KABS 220	KABS 225	UNITS	
Peak Repetitive Reverse Voltage	V_{RRM}												V	
Working Peak Reverse Voltage	V_{RWM}	20	30	40	45	50	60	80	100	150	200	250		
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 @ $T_c = 100^\circ C$	$I_F(AV)$	2.0											A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50											A	
Rating for fusing ($t < 8.3ms$)	$I^2 t$	10.375											$A^2 s$	
Forward Voltage per element @ $I_F = 2.0A$	V_{FM}			0.5		0.7		0.85		0.90		0.92	V	
Peak Reverse Current @ $T_A = 25^\circ C$ At Rated DC Blocking Voltage @ $T_A = 100^\circ C$	I_R	0.1						0.05						mA
		10						5						
Typical Thermal Resistance per leg (Note 1)	$R_{\theta JA}$	50											$^\circ C/W$	
	$R_{\theta JL}$	10												
Operating junction temperature range	T_J	-55to+150											$^\circ C$	
Operating and Storage Temperature Range	T_{STG}	-55to+150											$^\circ C$	

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

Fig. 1 Output Current Derating Curve

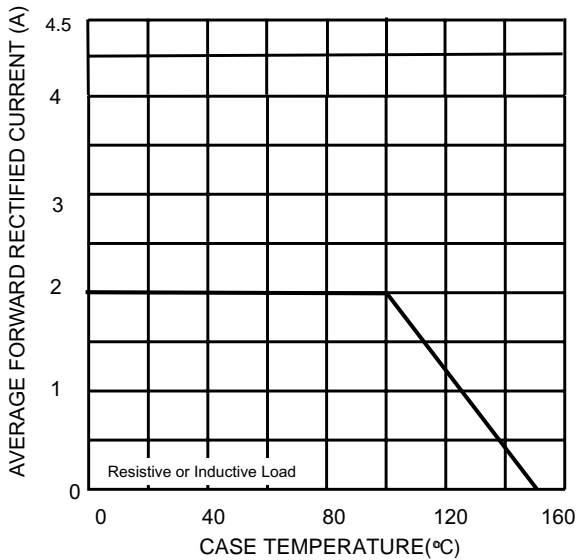


Fig. 2 Typical Forward Characteristics (per leg)

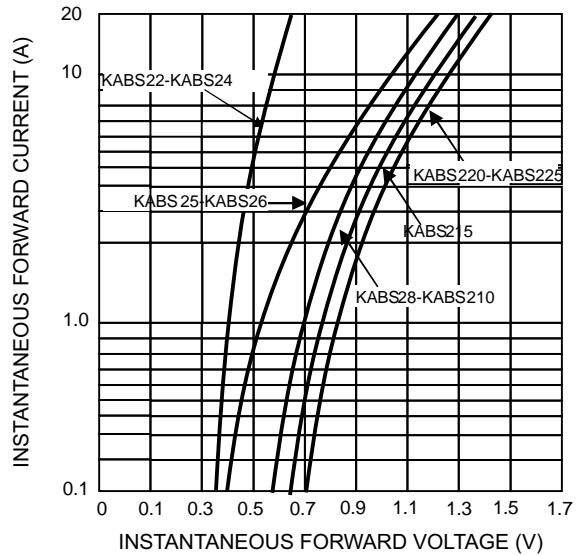


Fig. 3 Maximum Peak Forward Surge Current (per leg)

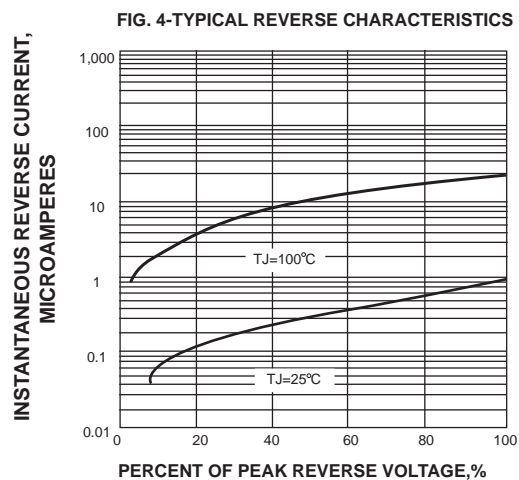
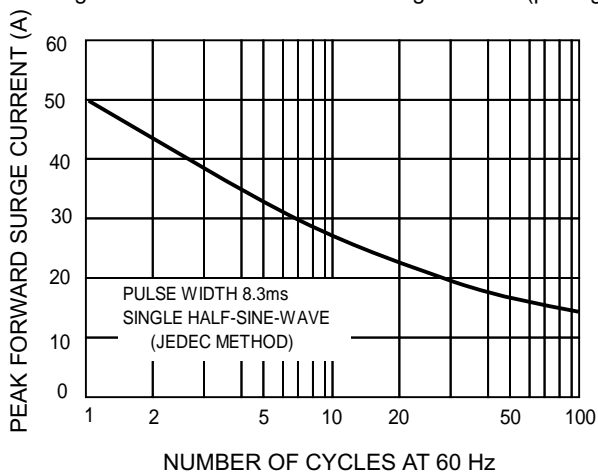
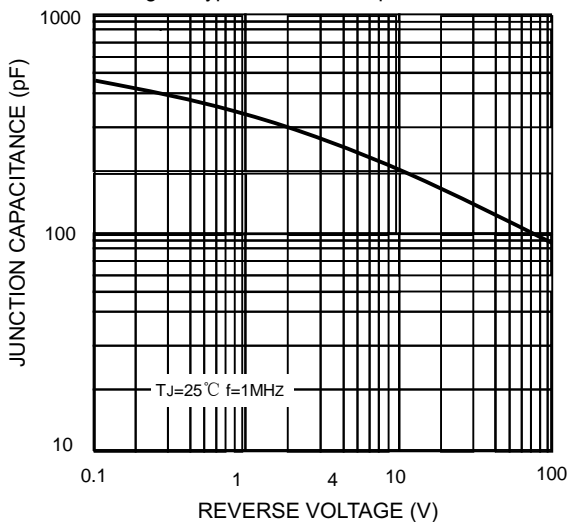
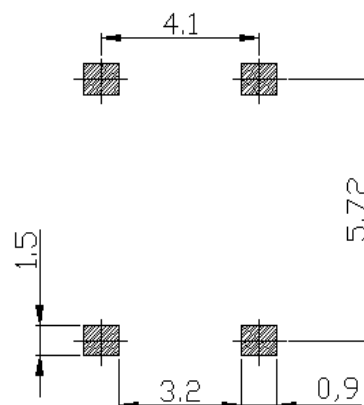


Fig. 5 Typical Junction Capacitance



ABS PAD LAYOUT



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