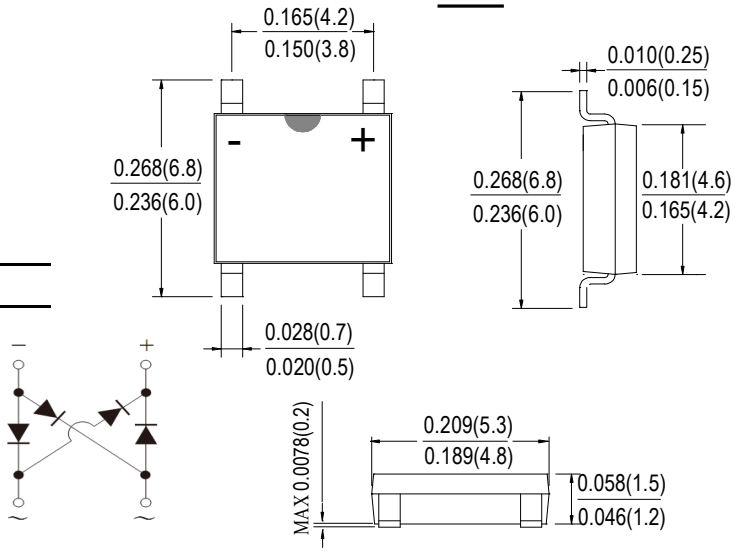
KABS32 THRU KABS325

SINGLE PHASE 3.0AMP SURFACE MOUNTSCHOTTKY 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

ABS



Dimensions in inches and (millimeters)

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

Maximum Ratings and Electrical Characteristics

Rating at 25℃ 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 32	KABS 33	KABS 34	KABS 345	KABS 35	KABS 36	KABS 38	KABS 310	KABS 315	KABS 320	KABS 325	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_{DC}	20	30	40	45	50	60	80	100	150	200	250	V
RMS Reverse Voltage	V_{RMS}	14	21	28	31	35	42	56	70	105	140	175	V
Average Rectified Output Current @T_C =100℃	IF(AV)	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
Rating for fusing (t<8.3ms)	I^2t	3.74											A^2s
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)	$R_{\theta JA}$	50											℃/W
	$R_{\theta JL}$	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.

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Fig. 1 Output Current Derating Curve

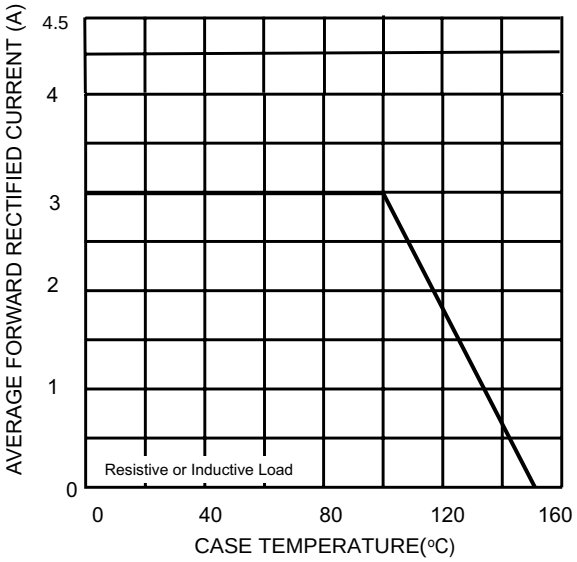


Fig. 2 Typical Forward Characteristics (per leg)

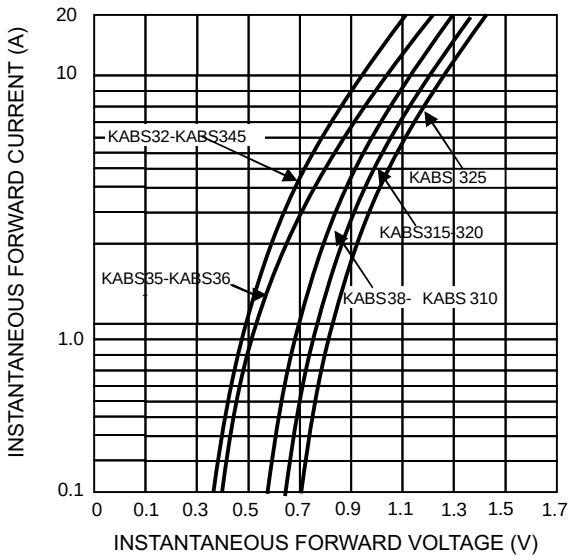


Fig. 3 Maximum Peak Forward Surge Current (per leg)

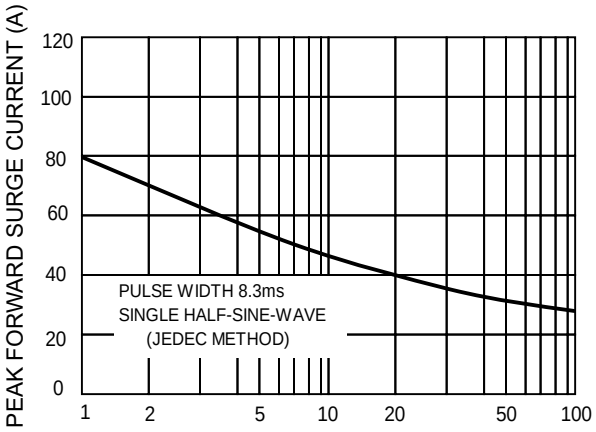


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

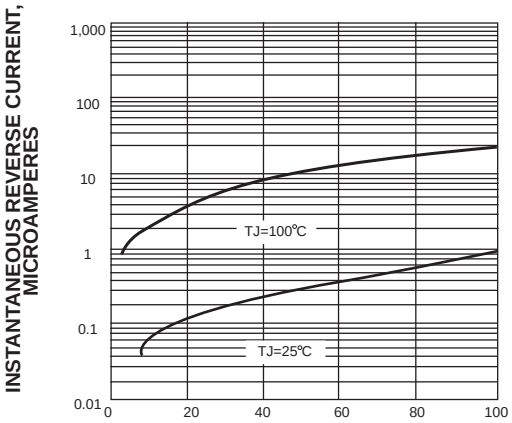
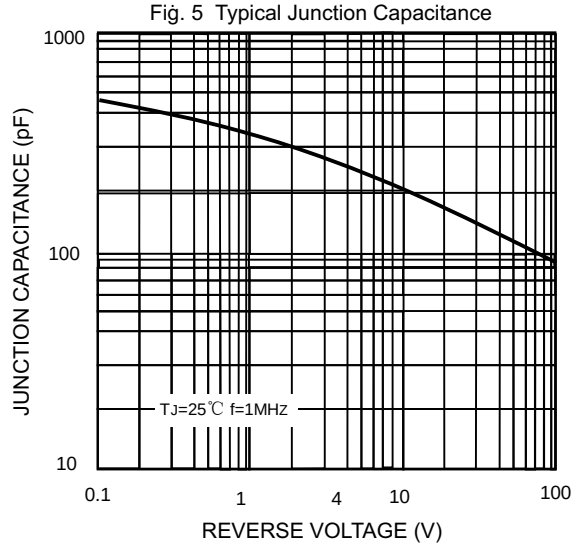
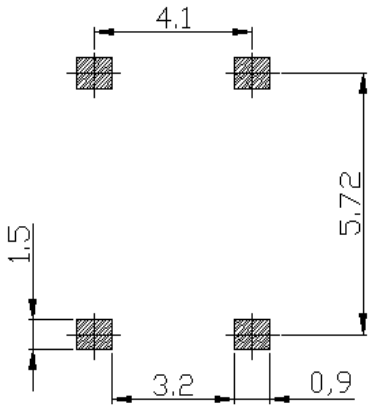


Fig. 5 Typical Junction Capacitance



ABS PAD LAYOUT



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