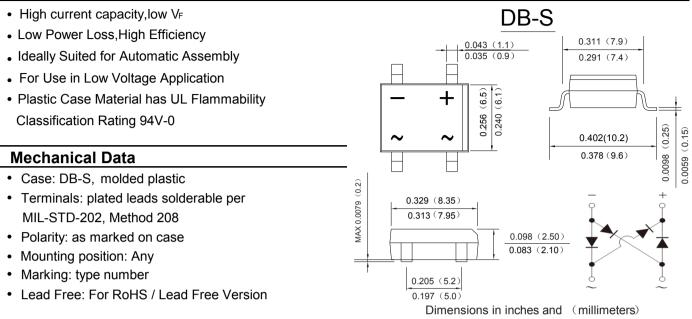


KDB32S THRU KDB325S

SINGLE PHASE 3.0 AMP SURFACE MOUNT SCHOTTKY 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%.

For capacitive load, derate current by 20%.		-					-						
TYPE NUMBER	SYMBOL	KDB 32S	KDB 33S	KDB 34S	KDB 345S	KDB 35S	KDB 36S	KDB 38S	KDB 310S	KDB 315S	KDB 320S	KDB 325S	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°C	IF(AV)	3.0										A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ifsm	80										А	
I ² t Rating for Fusing (t < 8.3ms)	l²t	26.56											A ² s
Forward Voltage per element @IF=3.0A	Vfm	0.55			0.	7	0.85 0.		0.9)	0.92	V	
Peak Reverse Current@Ta=25℃At Rated DC Blocking Voltage@Ta=100℃	lr	0.1 0.05											mA
		10 5											
Typical Junction Capacitance per leg (Note 2)	CJ	28											pF
Typical Thermal Resistance per leg	Reja	75											°C/W
	Rej∟	20											
Operating and Storage Temperature Range	TJ,TSTG	-55to+150										°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.



KDB32S THRU KDB325S

Fig. 1 Output Current Derating Curve

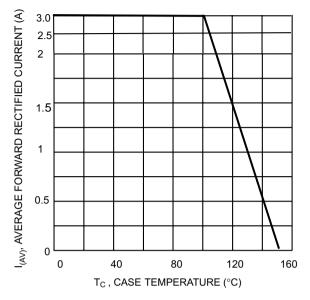


Fig. 3 Maximum Peak Forward Surge Current (per leg)

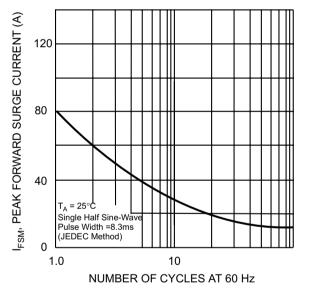


Fig. 5 Mounting Pad Layout

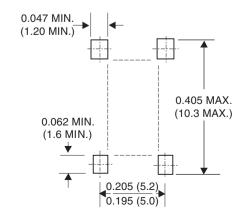


Fig. 2 Typical Forward Characteristics (per leg)

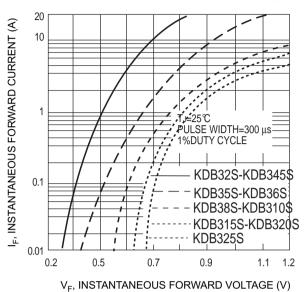
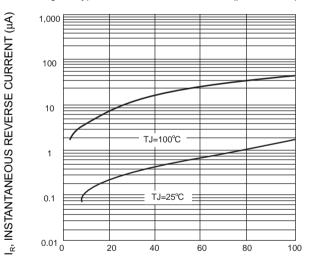


Fig. 4 Typical Reverse Characteristics (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



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