

Features

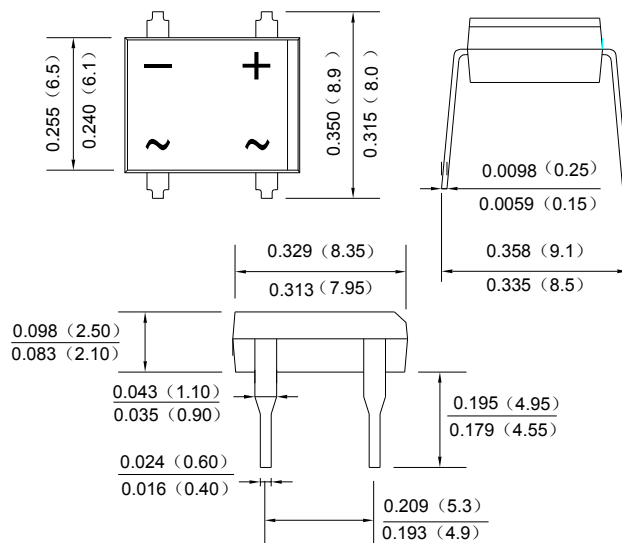
- High current capacity, low V_F
- Low Power Loss, High Efficiency
- Ideally Suited for Automatic Assembly
- For Use in Low Voltage Application
- Plastic Case Material has UL Flammability

Classification Rating 94V-0

Mechanical Data

- Case: DB-M, molded plastic
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting position: Any
- Marking: type number
- Lead Free: For RoHS / Lead Free Version,

DB-M



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	KDB 22	KDB 23	KDB 24	KDB 245	KDB 25	KDB 26	KDB 28	KDB 210	KDB 215	KDB 220	KDB 225	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM}	20	30	40	45	50	60	80	100	150	200	250	V
	V _{RWM}												
	V _{DC}												
RMS Reverse Voltage	V _{RMS}	14	21	28	31	35	42	56	70	105	140	175	V
Average Rectified Output Current (Note 1)@T _A =90℃	I _o	2.0											A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	60											A
Forward Voltage per element @I _F =2.0A	V _{FM}	0.55				0.7		0.85		0.9		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 Junction Capacitance per leg (Note 2)	C _J	28											pF
Typical Thermal Resistance per leg	R _{θJA}	75											℃/W
	R _{θJL}	20											
Operating and Storage Temperature Range	T _J ,T _{STG}	-55to+150											℃

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.

Fig. 1 Output Current Derating Curve

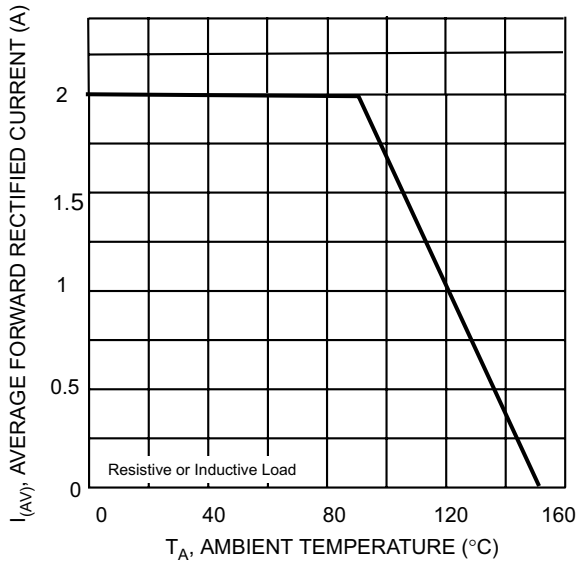


Fig. 2 Typical Forward Characteristics (per leg)

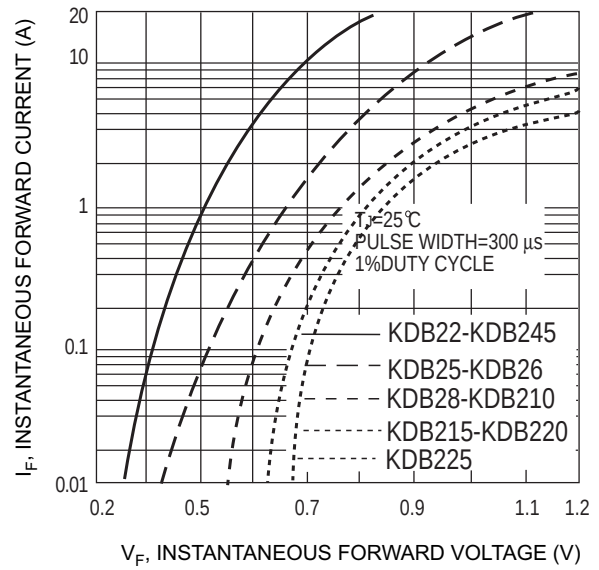


Fig. 3 Maximum Peak Forward Surge Current (per leg)

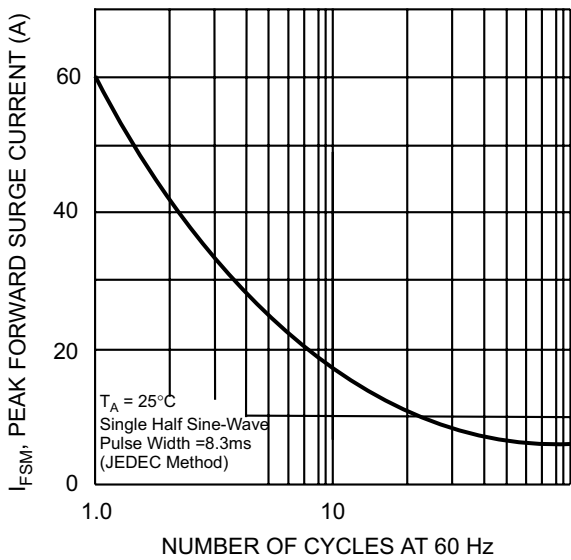


Fig. 4 Typical Reverse Characteristics (per element)

