

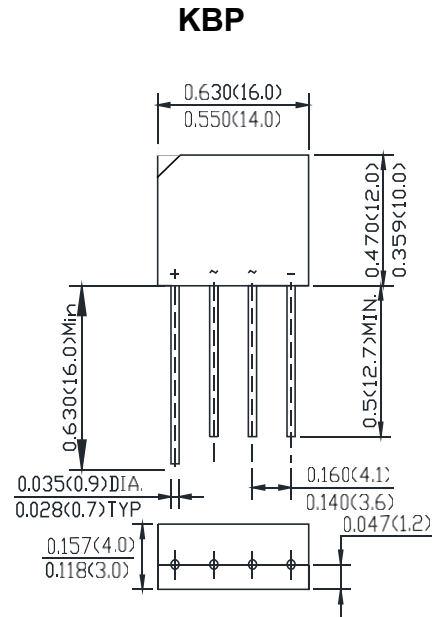
# SINGLE-PHASE SILICON BRIDGE

## KBP005 thru KBP10 (KBP210) AND RS2005 thru RS210

### 50 to 1000 V 2.0 A

### FEATURES

- UL recognized file # E176542
- Surge overload ratings-50 amperes peak
- Ideal for printed circuit board
- Plastic material has Underwriters Laboratory Flammability Classification 94V-O
- Mounting position: Any
- Lead: Silver Plated Cooper Lead.
- Electrically isolated base-1800Volts



Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60HZ, resistive or inductive load. For capacitive load, derate current by 20%.

		RS2005	RS201	RS202	RS204	RS206	RS208	RS10	Units
		KBP005	KBP01	KBP02	KBP04	KBP06	KBP08	KBP10	
		KBP2005	KBP201	KBP202	KBP204	KBP206	KBP208	KBP210	
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	60	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at @T <sub>A</sub> =25°C	I <sub>o</sub>	2.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load	IFSM	50							Amp
Maximum DC Forward Voltage drop per element at 1.0A DC	VF	1.1							Volts
Maximum DC Reverse Current at rated @ T <sub>A</sub> =25°C DC Blocking Voltage Per Element @ T <sub>A</sub> =100°C	IR	10 100							uAmp
I <sup>2</sup> t Rating for fusing(t<8.3ms)	I <sup>2</sup> t	10							A <sup>2</sup> S
Operating Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	TSTG	-55 to +150							°C

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## RATINGS AND CHARACTERISTIC CURVES

Fig.1 - DERATING CURVE FOR  
OUTPUT RECTIFIED CURRENT

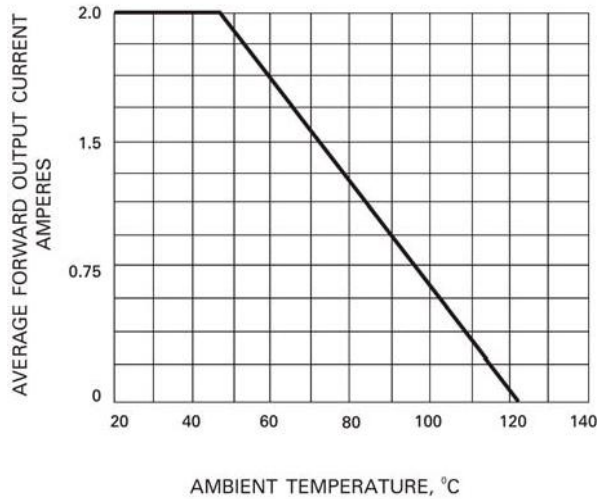


Fig.2 - DERATING CURVE FOR  
OUTPUT RECTIFIED CURRENT

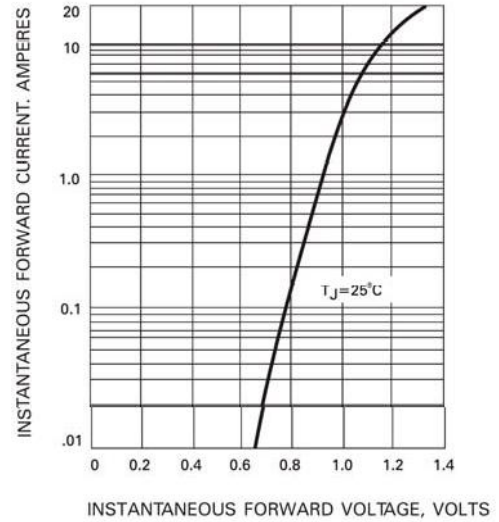


Fig.3 - TYPICAL FORWARD  
CHARACTERISTICS

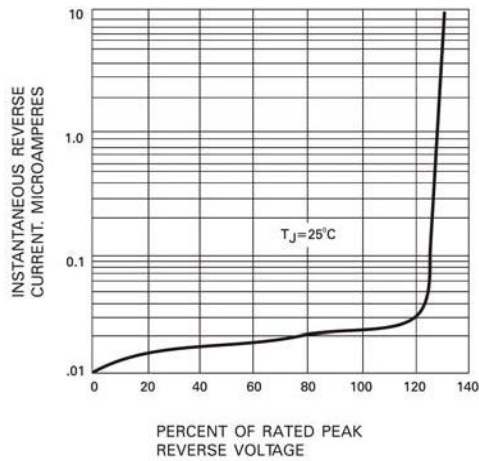


Fig.1 - MAXIMUM FORWARD SURGE CURRENT

