



SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

2KBP005M THRU 2KBP10M

VOLTAGE RANGE
CURRENT

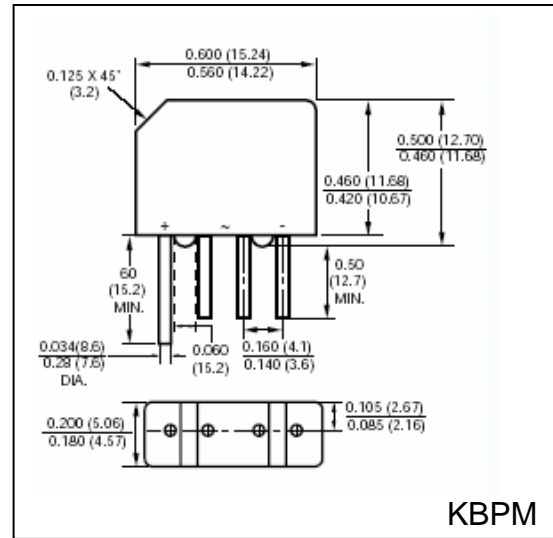
50 to 1000 Volts
2.0 Ampere

FEATURES

- Plastic package has UL flammability Classification 94V – 0
- Glass passivated chip junction
- High case dielectric strength of 1500 V_{RMS}
- High surge current capability
- High temperature soldering guaranteed:
260 °C /10 seconds, 0.375” (9.5mm) lead length

MECHANICAL DATA

- Case: Molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750 Method 2026
- Mounting position: any
- Weight: 0.069 ounce, 1.95 gram



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%

	SYMBOLS	2KBP 005M	2KBP 01M	2KBP 02M	2KBP 04M	2KBP 06M	2KBP 08M	2KBP 10M	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current, At T _C = 55°C	I _(AV)	2.0							Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	I _{FSM}	60							Amps
Rating for Fusing (t<8.3mS)	I ² t	15							A ² s
Maximum Instantaneous Forward Voltage drop per Bridge element 2.0A	V _F	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	I _R	5.0							μA
Typical Junction Capacitance, per leg (Measured at 1.0MHz and applied reverse voltage of 4.0V)	C _J	20							pF
Typical Thermal Resistance	R _{θJA}	28							°C/W
Operating Junction Temperature Range	T _J	(-55 to +150)							°C
Storage Temperature Range	T _{STG}	(-55 to +150)							°C

Notes:

1. Unit mounted on PCB 0.47” x 0.47” (12mm x 12mm) pads with 0.375” (9.5mm) lead length



RATINGS AND CHARACTERISTIC CURVES 2KBP005M THRU 2KBP10M

FIG.1—DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

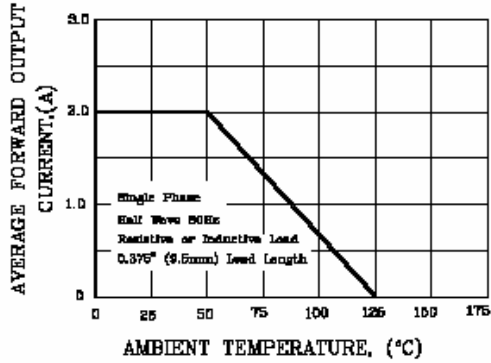


FIG.2—MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER ELEMENT

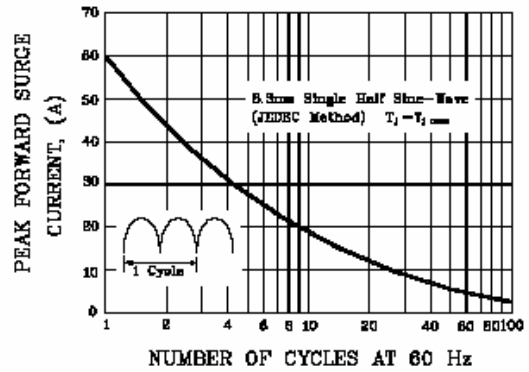


FIG.3—TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

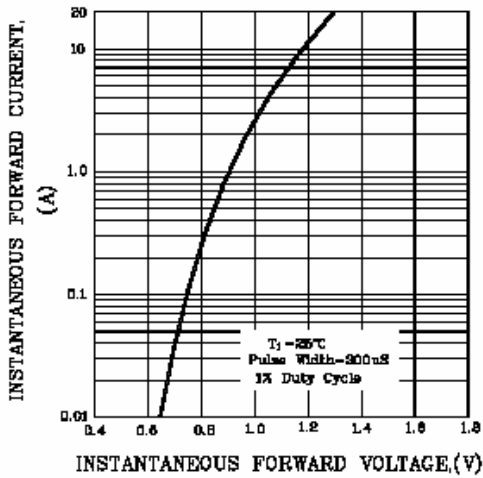


FIG.4—TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

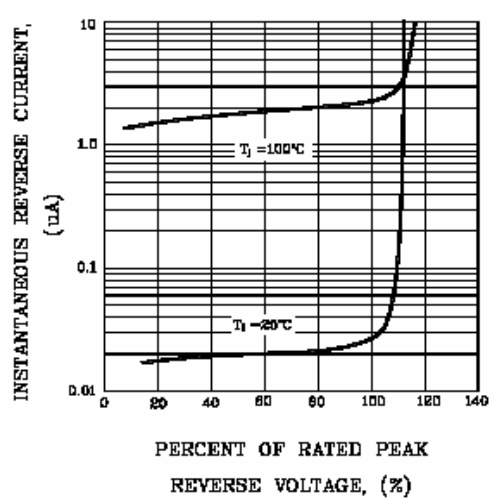


FIG.5—TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

