



Lead free devices

CHENMKO ENTERPRISE CO.,LTD

**SINGLE-PHASE GLASS PASSIVATED
SILICON BRIDGE RECTIFIER**

VOLTAGE RANGE 50 - 1000 Volts CURRENT 2.0 Amperes

2KBP005MPT

THRU

2KBP10MPT

FEATURES

- * Ideal for printed circuit board
- * Surge overload rating - 60 Amperes peak

MECHANICAL DATA

Case: JEDEC 2KBP molded plastic

Terminals: Plated leads solderable per MIL-STD-750,
Method 2026

Mounting position: Any

Polarity: Polarity symbols marked on body

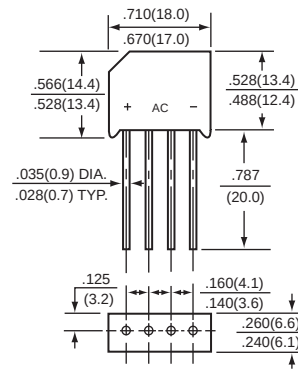
Weight: 2.74 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



2KBP



Dimensions in inches and (millimeters)

2KBP

MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	2KBP005MPT	2KBP01MPT	2KBP02MPT	2KBP04MPT	2KBP06MPT	2KBP08MPT	2KBP10MPT	UNITS
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	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 50°C	Io	2.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	60							Amps
Operating Temperature Range	TJ	-55 to +125							°C
Storage Temperature Range	TSTG	-55 to +150							°C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	2KBP005MPT	2KBP01MPT	2KBP02MPT	2KBP04MPT	2KBP06MPT	2KBP08MPT	2KBP10MPT	UNITS
Maximum Instantaneous Forward Voltage at 2.0 A DC	VF	1.1							Volts
Maximum Reverse Current at rated	IR	10							uAmps
DC blocking Voltage per element		0.5							mAmps

RATING CHARACTERISTIC CURVES (2KBP005MPT THRU 2KBP10MPT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

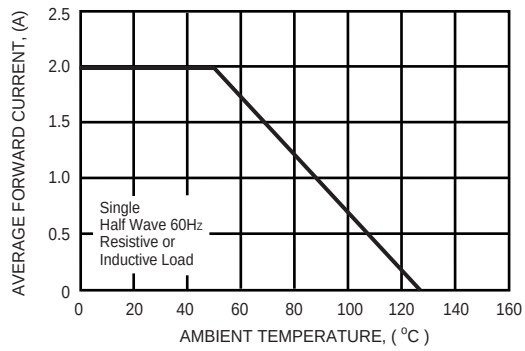


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

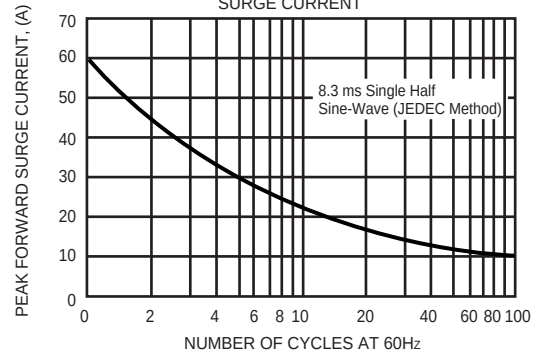


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

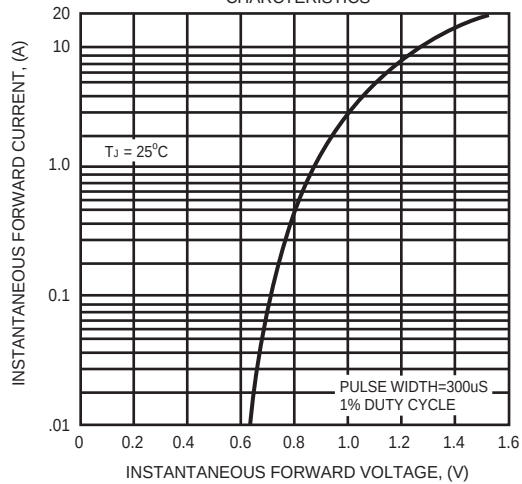


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

