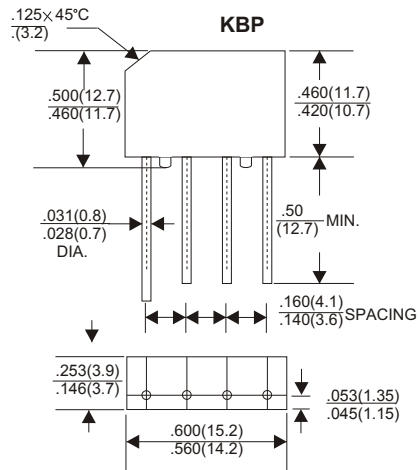


SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Features:

- * Ideal for printed circuit board
- * Low forward voltage
- * Low leakage current
- * Polarity: marked on body
- * Mounting position: Any
- * Weight: 2.74 grams
- * Both normal and Pb free product are available:
- * Normal: 80~95%Sn, 5~20%Pb
- * Pb free: 99 Sn above can meet Rohs environment substance directive request



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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	KBP201	KBP202	KBP203	KBP204	KBP206	KBP208	KBP210	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at Ta=50°C	2.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	60							A
Maximum Forward Voltage Drop per Bridge Element at 2.0A D.C.	1.1							V
Maximum DC Reverse Current Ta=25°C	10							uA
at Rated DC Blocking Voltage Ta=100°C	500							uA
Rating for fusing (t < 8.3ms)	I ²							A ² Sec
Typical junction capacitance per leg at 4.0V, 1MHz	Cj							pF
Maximum thermal resistance per leg (Note1)	Rth(ja) Rth(jc)							°C/W
Operating junction and storage temperature range	Tj, Tstg							°C

Note:

1. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.47 x 047" (12 x 12mm) copper pads

RATING AND CHARACTERISTIC CURVES (KBP201 THRU KBP210)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

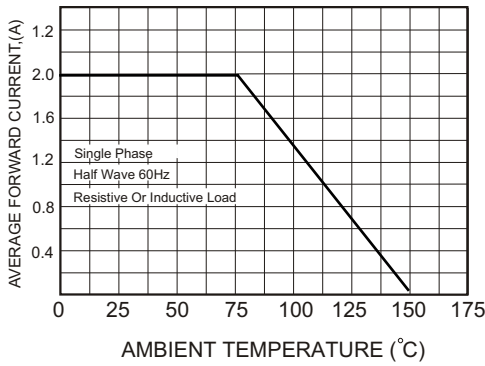


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

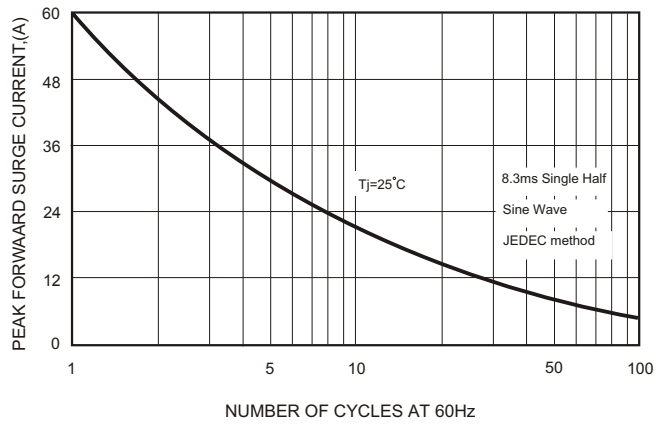


FIG.3-TYPICAL FORWARD CHARACTERISTICS

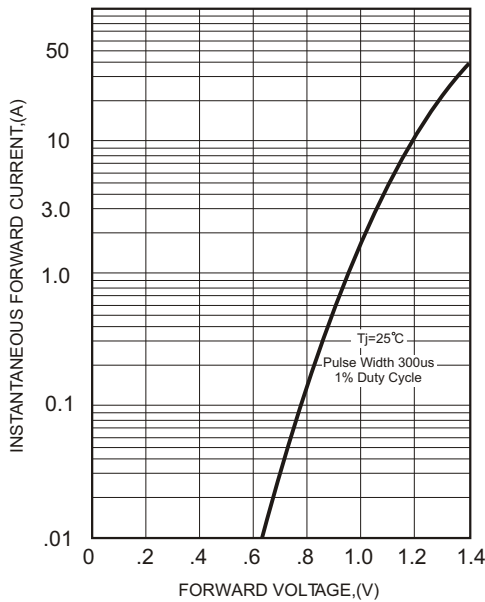


FIG.4-TYPICAL REVERSE CHARACTERISTICS

