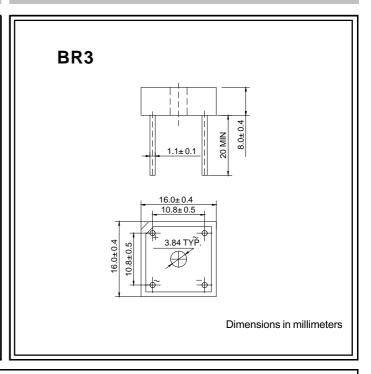
SILICON BRIDGE RECTIFIERS

VOLTAGE RANGE: 50 --- 1000 V

CURRENT: 3.0 A

FEATURES

- ♦ Surge overload rating to 50 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product



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 by 20%.

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

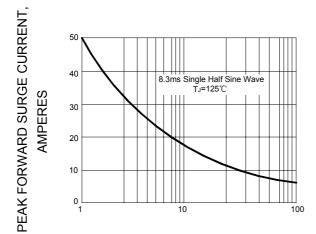
				-				
SYMBOLS	KPBC 1005 BR305	KPBC 101 BR31	KPBC 102 BR32	KPBC 104 BR34	KPBC 106 BR36	KPBC 108 BR38	KPBC 110 BR310	UNITS
Vrrm	50	100	200	400	600	800	1000	VOLTS
Vrms	35	70	140	280	420	560	700	VOLTS
VDC	50	100	200	400	600	800	1000	VOLTS
	3.0 2.0							Amps
I(AV)								
Irsm 60							Amps	
l²t	15							A ² s
	1.0							Volts
VF								
	10							uA
l IR	0.5							mA
Сл	20							pF
Rqja	12						°C/W	
Тı	-55 to +125						°C	
Тѕтс	-55 to +150							°C
	VRRM VRMS VDC I(AV) IFSM I ² t VF IR CJ RqJA TJ	SYMBOLS	SYMBOLS	SYMBOLS	SYMBOLS 1005 BR305 101 BR31 BR32 BR34 BR34 102 BR34 BR34 BR34 BR34 BR34 BR34 BR34 BR34	SYMBOLS 1005 BR305 101 BR31 102 BR32 104 BR32 106 BR34 106 BR36 VRM 50 100 200 400 600 VRMS 35 70 140 280 420 VDC 50 100 200 400 600 I(AV) 3.0 2.0 IFSM 60 60 I²t 15 1.0 VF 1.0 0.5 CJ 20 20 RqJA 12 15 TJ -55 to +125	SYMBOLS 1005 BR305 101 BR31 102 BR32 104 BR34 BR36 BR38 108 BR38 VRRM 50 100 200 400 600 800 VRMS 35 70 140 280 420 560 VDC 50 100 200 400 600 800 I(AV) 3.0 2.0 IFSM 60 60 800 I²t 15 1.0 IR 0.5 2.0 RqJA 12 12 TJ -55 to +125	SYMBOLS 1005 BR305 101 BR31 102 BR31 104 BR32 106 BR34 106 BR36 108 BR38 110 BR31 VRM 50 100 200 400 600 800 1000 VRMS 35 70 140 280 420 560 700 VDC 50 100 200 400 600 800 1000 I(AV) 3.0 2.0 IFSM 60 60 800 1000 IP 15 1.0

- 1.Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.

 2.Unit mounted on 4.0" x 4.0" x0.11" thick(10.5x10.5x0.3cm)Al.plate.

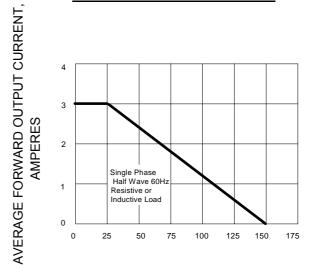
 3.Unit mounted on P.C. board with 0.5" x 0.5"(12x12mm) copper pads,0.375"(9.5mm) lead length.

FIG.1 - PEAK FORWARD SURGE CURRENT



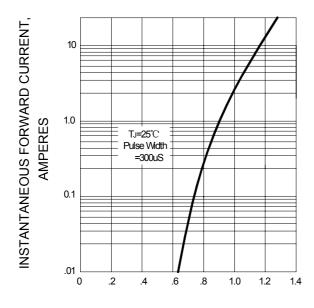
NUMBER OF CYCLES AT 60Hz

FIG.2 - FORWARD DERATING CURVE



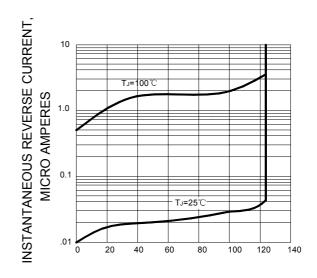
AMBIENT TEMPERATURE, °C

FIG.3 - TYPICAL FORWARD CHARACTERISTIC



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

FIG.4 - TYPICAL REVERSE CHARACTERISTIC



PERCENT OF RATED PEAK REVERSE VOLTAGE