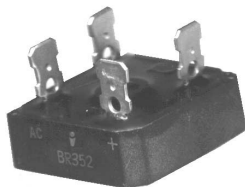
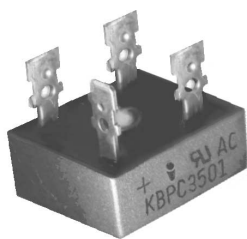




KBPC3500 / BR350 SERIES

35 AMPERE SINGLE-PHASE SILICON BRIDGE RECTIFIER



FEATURES

- *High efficiency*
- *Surge overload rating - 400 amperes peak*
- *Body clad with metal (electrically isolated) or plastic*
- *Plastic encapsulation has Underwriters*
- *Laboratory flammability classification 94V-0*
- *Universal multi-purpose terminals*

MECHANICAL DATA

Case : Metal or Plastic shell with plastic encapsulation

Terminals : 1/4 inch, 6.35mm Faston blades*

Polarity : Positive symbol printed on body

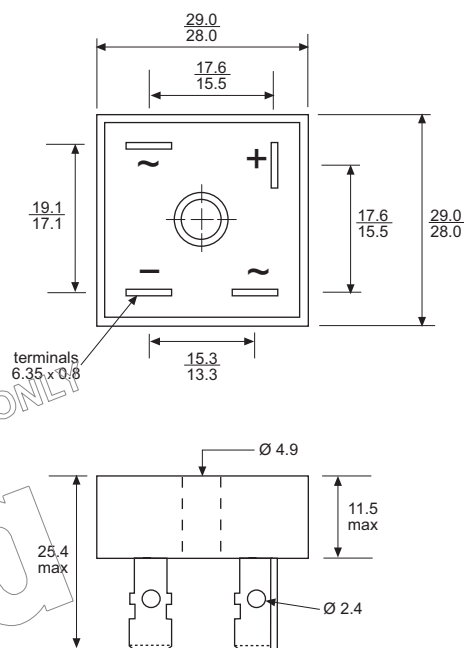
Weight : 1.1 ounce, 31.6 grams

VOLTAGE RANGE

50 to 1000 Volts PRV

CURRENT

35 Amperes



Dimensions in millimetres

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

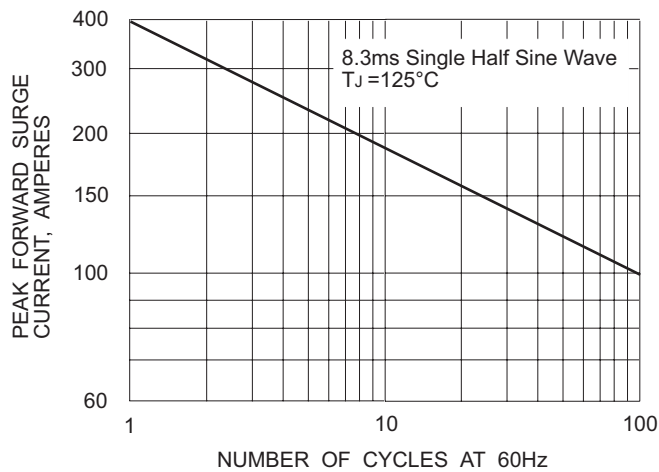
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

		Metal Case	KBPC35005	KBPC3501	KBPC3502	KBPC3504	KBPC3506	KBPC3508	KBPC3510	
		Plastic Case	BR3505	BR351	BR352	BR354	BR356	BR358	BR3510	
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	V
Maximum Bridge Input Voltage RMS		V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current at T _C = 55 °C (see Fig 2)		I _{F(AV)}	35.0							A
Peak Forward Surge Current, 8.3 ms single half sine - wave superimposed on rated load (see Fig 1)		I _{FSM}	400							A
Maximum Forward Voltage Drop per Element at 17.5A (see Fig 3)		V _F	1.2							V
Maximum Reverse Current at Rated DC Blocking Voltage per Element (see Fig 4)		I _R	T _A = 25°C		10.0					μA mA
			T _A = 100°C		1.0					
RMS Isolation Voltage from Case to Terminals		V _{ISO}	2500							V
Typical Thermal Resistance		R _{θJC}	2.0							°C/W
Operating Temperature Range		T _J	- 55 to + 125							°C
Storage Temperature Range		T _{STG}	- 55 to + 150							°C

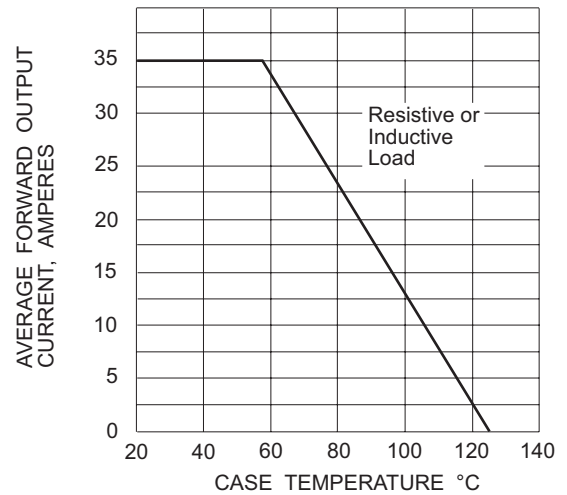
* Lead out wires can be supplied as an alternative to blades - add suffix W to part number e.g. KBPC3506W

RATING AND CHARACTERISTIC CURVES KBPC3500/BR350 SERIES

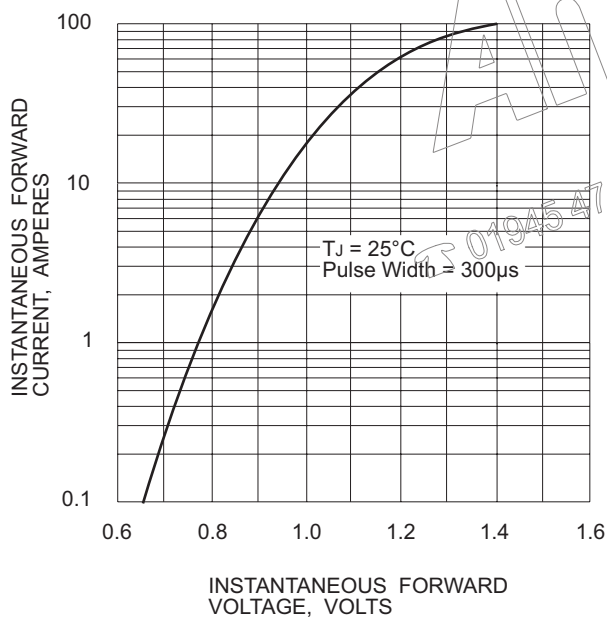
**FIG 1 : MAXIMUM NON-REPETITIVE
SURGE CURRENT PER ELEMENT**



**FIG 2 : DERATING CURVE FOR
RECTIFIED OUTPUT CURRENT**



**FIG 3 : TYPICAL FORWARD
CHARACTERISTICS PER ELEMENT**



**FIG 4 : TYPICAL REVERSE
CHARACTERISTICS PER ELEMENT**

