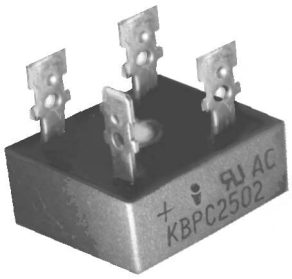
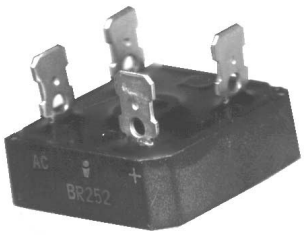
E-MAIL: info@angliac.com WEB: www.angliac.com

KBPC2500 / BR250 SERIES

25 AMPERE SINGLE-PHASE SILICON BRIDGE RECTIFIER





VOLTAGE RANGE
50 to 1000 Volts PRV

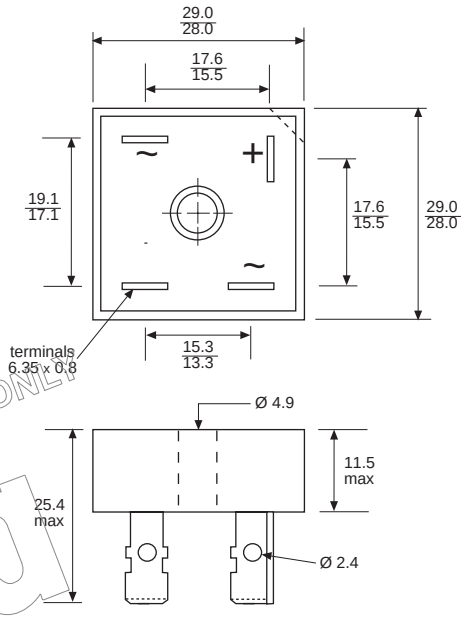
CURRENT
25 Amperes

FEATURES

- *High efficiency*
- *Surge overload rating - 300 amperes peak*
- *Body clad with metal (electrically isolated) or plastic*
- *Plastic encapsulation has Underwriters*
- *Laboratory flammability classification 94V-0*
- *Universal multipurpose terminals*

MECHANICAL DATA

Case : Metal or Plastic shell with plastic encapsulation
Terminals : 1/4inch, 6.35mm Faston blades *
Polarity : Positive symbol printed on body
Weight : 1.1 ounce, 31.6 grams



Dimensions in millimetres

TECHNICAL DATA FOR REFERENCE PURPOSES ONLY
Anglia
01945 47 47 47
01945 47 48 49

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	**KBPC25005**	**KBPC2501**	**KBPC2502**	**KBPC2504**	**KBPC2506**	**KBPC2508**	**KBPC2510**	
	Plastic Case	**BR2505**	**BR251**	**BR252**	**BR254**	**BR256**	**BR258**	**BR2510**	
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)	$I_{F(AV)}$	25.0							A
Peak Forward Surge Current, 8.3 ms single half sine - wave superimposed on rated load (see Fig 1)	I_{FSM}	300							A
Maximum Forward Voltage Drop per Element at 12.5A (see Fig 3)	V_F	1.2							V
Maximum Reverse Current at Rated DC Blocking Voltage per Element (see Fig 4)	T_A = 25°C T_A = 100°C I_R	10.0 1.0							µA mA
RMS Isolation Voltage from Case to Terminals	V_{ISO}	2500							V
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. KBPC2506W

RATING AND CHARACTERISTIC CURVES KBPC2500/BR250 SERIES

FIG 1 : MAXIMUM NON-REPETITIVE SURGE CURRENT PER ELEMENT

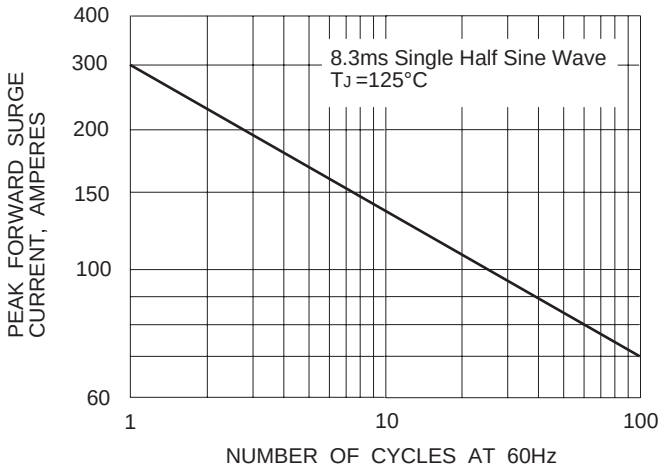
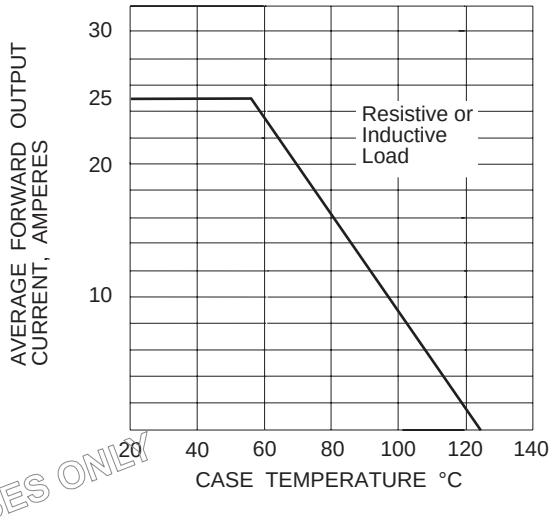


FIG 2 : DERATING CURVE FOR RECTIFIED OUTPUT CURRENT



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01945 47 48 49

FIG 3 : TYPICAL FORWARD CHARACTERISTICS PER ELEMENT

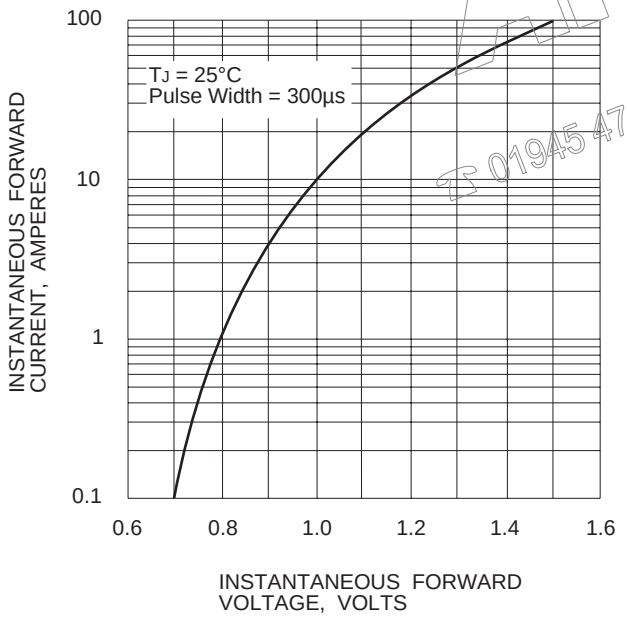


FIG 4 : TYPICAL REVERSE CHARACTERISTICS PER ELEMENT

