

High Current Bridge Rectifiers



KBPC Series (RoHS Device)

Reverse Voltage: 50 ~ 1000 Volts

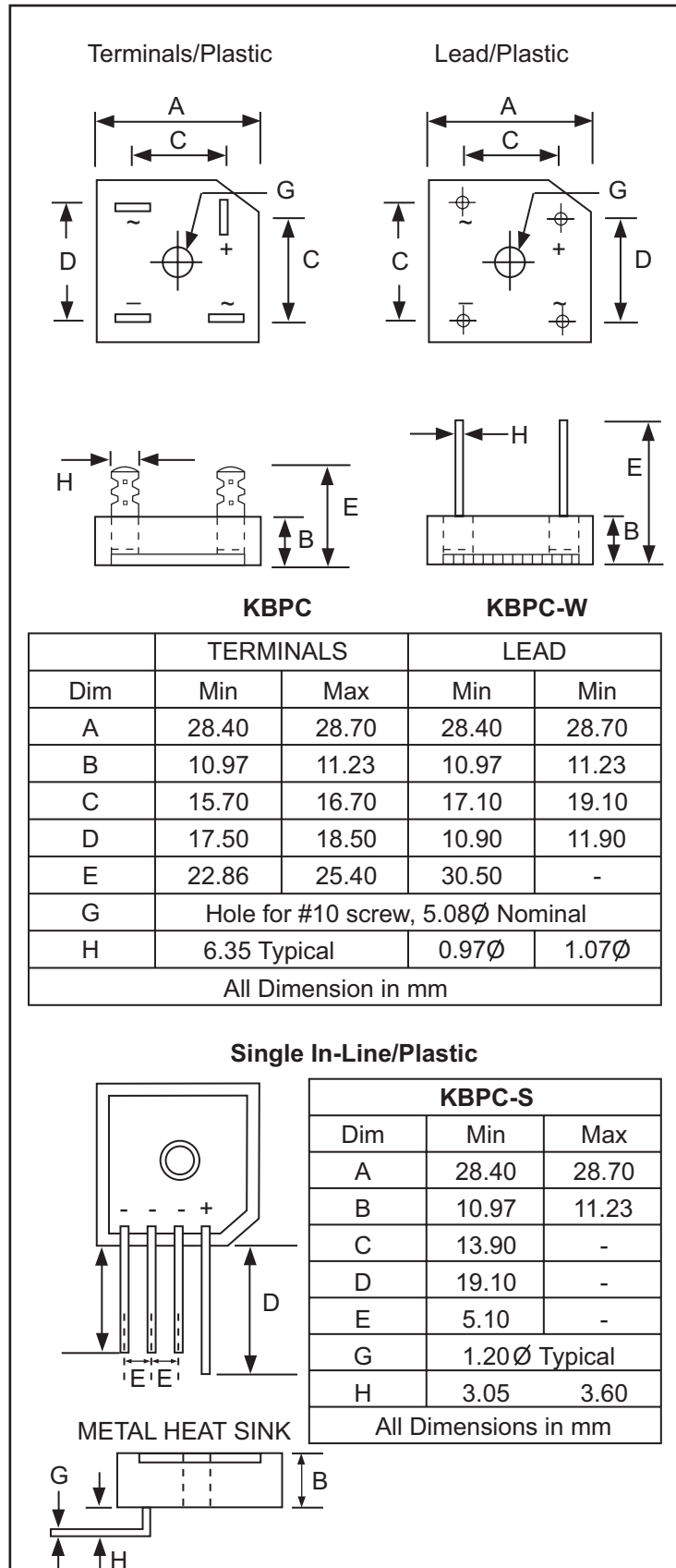
Forward Current: 10/15/25/35/50 Amp

Features:

- Surge Overload 200~400 Amp peak
- Low Forward Voltage Drop
- Mounting Position: Any
- Electrically Isolated Base: 1800 Volts
- Solderable 0.25" FASTON Terminals
- Materials used carries U/L recognition

Mechanical Data:

- Case: Epoxy Case with Heat Sink Internally Mounted in the Bridge Encapsulation
- Terminals: Plated Leads Solderable per MIL STD-202, Method 208
- Weight: 30 grams (approx.)
- Mounting: Through Hole for #10 Screw



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Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load 60Hz.

For capacitive load current by 20%

CHARACTERISTICS	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	Unit
	10005-G	1001-G	1002-G	1004-G	1006-G	1008-G	1010-G	
	15005-G	1501-G	1502-G	1504-G	1506-G	1508-G	1510-G	
	25005-G	2501-G	2502-G	2504-G	2506-G	2508-G	2510-G	
	35005-G	3501-G	3502-G	3504-G	3506-G	3508-G	3510-G	
	50005-G	5001-G	5002-G	5004-G	5006-G	5008-G	5010-G	
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	35	70	140	280	280	560	700	V
Maximum Forward Voltage Drop Per Element at 5.7/ 7.5/ 12.5/ 17.5/ 25.0A Peak	1.2							V
Maximum Reverse Current at Rate DC Blocking Voltage per Element @ T _A = 25°C	10							µA
Operating Temperature Range T _C	-55 to +125							°C
Storage Temperature Range T _A	-55 to +150							°C

Maximum Ratings and Electrical Characteristics

CHARACTERISTICS	KBPC	KBPC	KBPC	KBPC	KBPC	Unit
	10005-G ↓ 1010-G	15005-G ↓ 1510-G	25005-G ↓ 2510-G	35005-G ↓ 3510-G	50005-G ↓ 5010-G	
Maximum Average Forward Rectified Output Current @ T _C =55°C	10	15	25	35	50	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super imposed on rated load	200	300	300	400	400	A

NOTES: Also available on KBPC 10W/ 15W/ 35W/ 50W Series.

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Rating and Characteristic Curves (KBPC10, 15, 25, 35, 50)

Fig. 1 - Reverse Characteristics

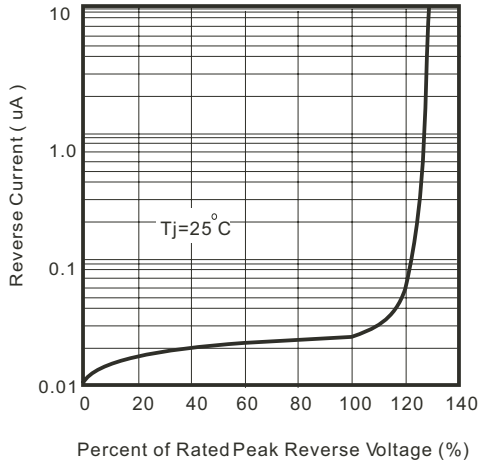


Fig. 2 - Forward Characteristics

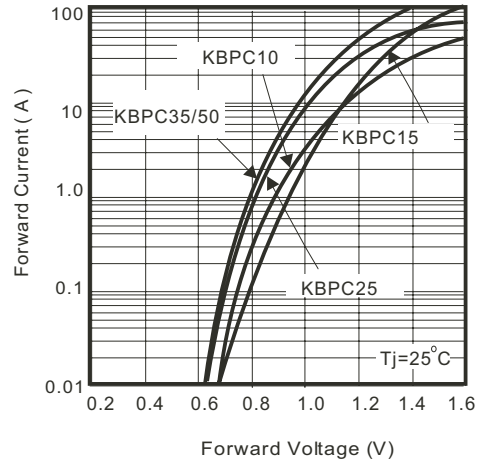


Fig. 3 - Non Repetitive Forward Surge Current

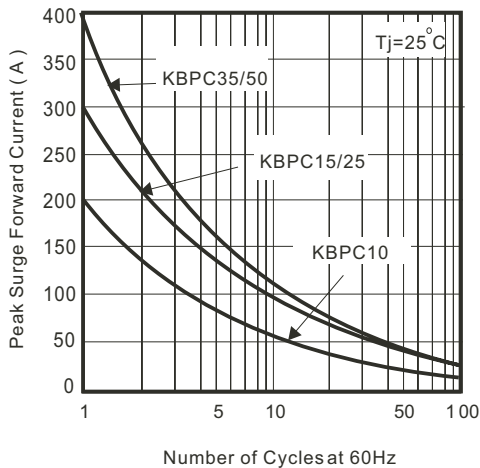


Fig. 4 - Current Derating Curve

