KBPC10005W THRU KBPC1010W

10 A Glass Passivated Single Phase Bridge Rectifiers-50-1000V

Features

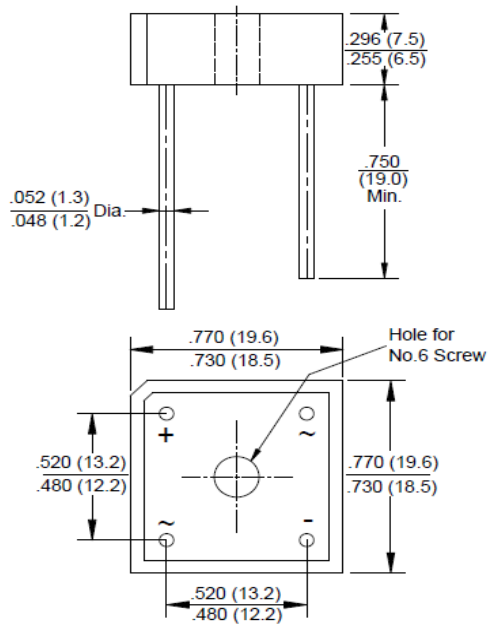
- Low forward voltage drop
- Small size;simple installation
- Lead tin plated copper

Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- Case : Molded plastic, KBPC-W
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : marked on body
- Mounting Position : Any

Package outline

KBPC-W



Package Outline Dimensions in Inches (Millimeters)

Maximum ratings and Electrical Characteristics (AT T_A=25°C unless otherwise noted)

PARAMETER	CONDITIONS	SYMBOL	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.1	$I_{F(AV)}$			10	A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC methode)	I_{FSM}			240	A
I^2t Rating for Fusing (t<8.3mS)		I^2t			239	A^2s
Reverse current	V_R = V_{RRM} T_J = 25°C	I_R			5.0	μA
	V_R = V_{RRM} T_J = 100°C				1000	
Operating temperature range		T_J	-55		+150	°C
Storage temperature		T_{STG}	-55		+150	°C

SYMBOLS	V_{RRM} *1 (V)	V_{RMS} *2 (V)	V_R *3 (V)	V_F *4 (V)	Operating temperature T_J, (°C)
KBPC10005W	50	35	50	1.0	-55 to +150
KBPC1001W	100	70	100		
KBPC1002W	200	140	200		
KBPC1004W	400	280	400		
KBPC1006W	600	420	600		
KBPC1008W	800	560	800		
KBPC1010W	1000	700	1000		

*1 Repetitive peak reverse voltage

*2 RMS voltage

*3 Continuous reverse voltage

*4 Maximum forward voltage per diode @I_F= 5.0A

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Rating and characteristic curves

Fig. 1 - Forward Current Derating Curve

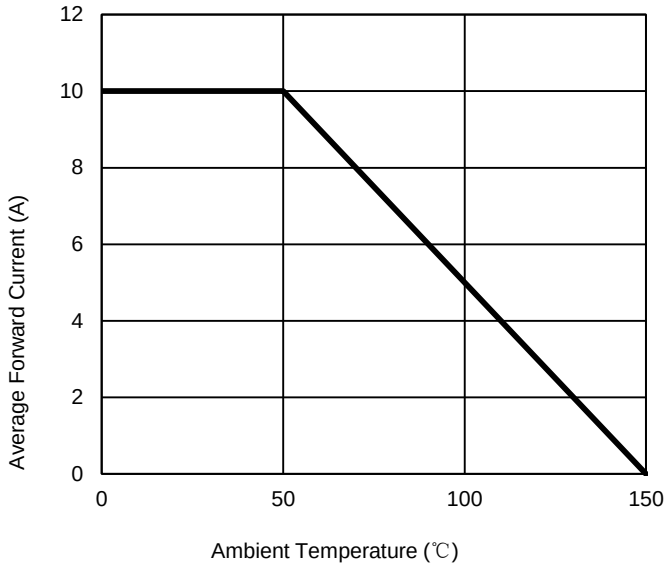


Fig. 2 - Maximum Non-Repetitive Surge Current

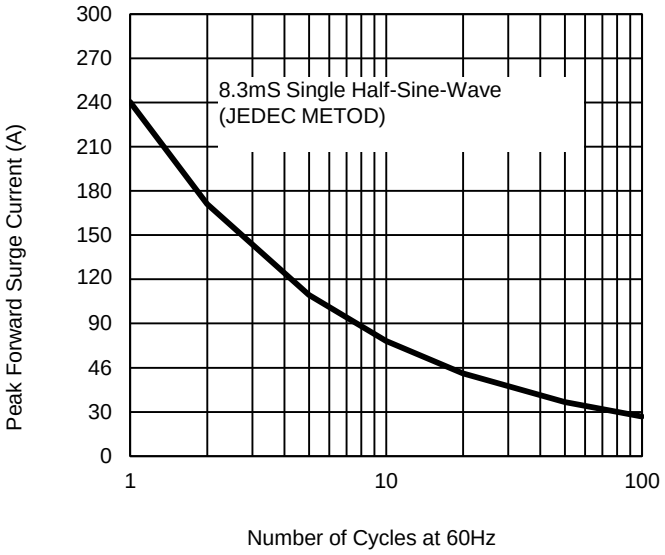


Fig. 3 - Typical Reverse Characteristics

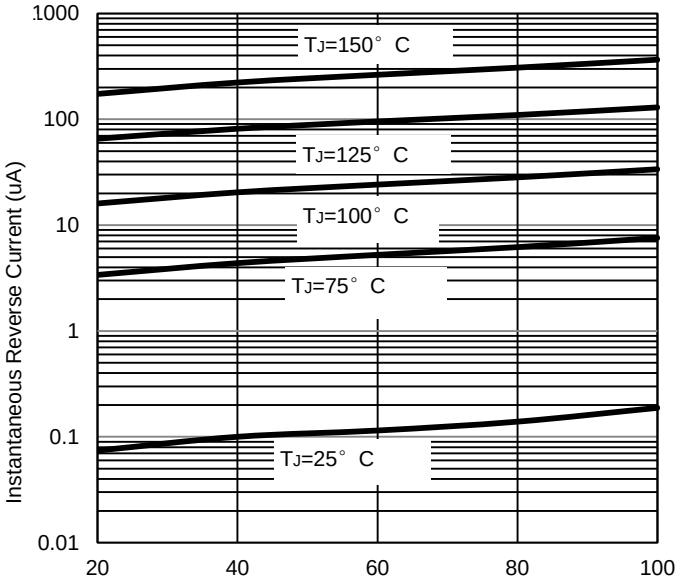
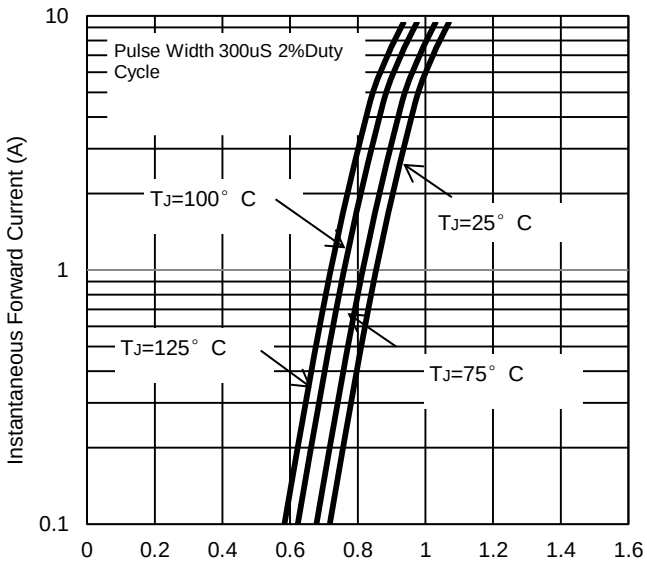


Fig. 4 - Typical Forward Characteristics



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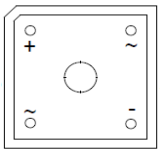
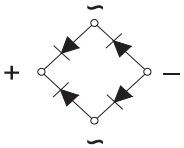
Pinning information

Simplified outline	Symbol
	

Marking

Type number	Marking code
KBPC10005W	KBPC10005W
KBPC1001W	KBPC1001W
KBPC1002W	KBPC1002W
KBPC1004W	KBPC1004W
KBPC1006W	KBPC1006W
KBPC1008W	KBPC1008W
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