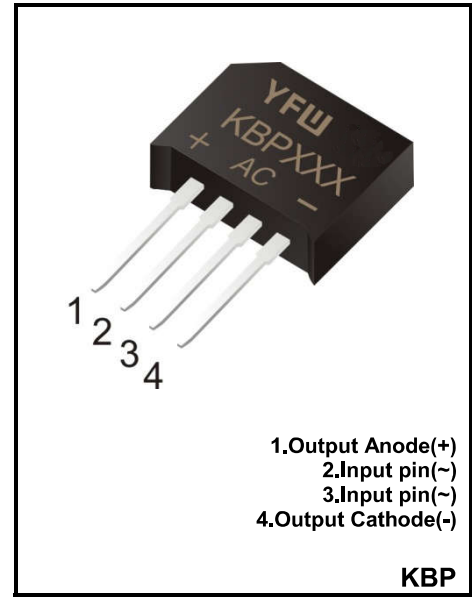


**6.0A GLASS PASSIVATED BRIDGE RECTIFIER**
**Reverse Voltage - 100 to 1000 V**
**Forward Current – 6.0A**
**FEATURES**

- ◆High current capability
- ◆Low forward voltage drop
- ◆Glass Passivated Chip Junction
- ◆Low power loss, high efficiency
- ◆Lead free in comply with EU RoHS 2011/65/EU directives

**MECHANICAL DATA**

- ◆Case: KBP
- ◆Terminals: Solderable per MIL-STD-202, Method 208
- ◆Approx. Weight: 1.52g / 0.05oz


**Maximum Ratings and Electrical characteristics**

Ratings at 25 °C ambient temperature unless otherwise specified.

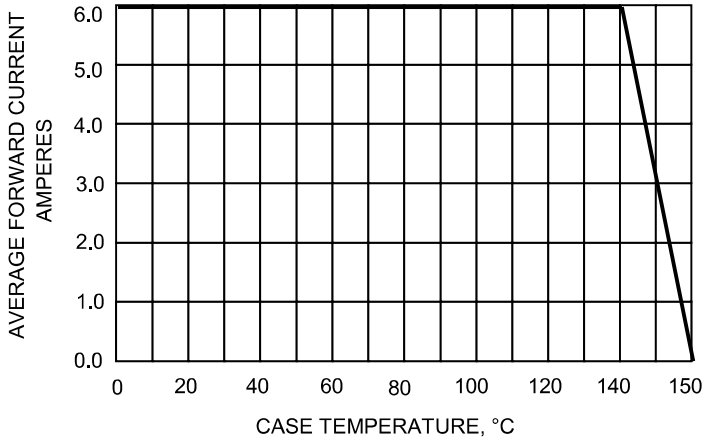
Parameter	Symbols	KBP601	KBP602	KBP604	KBP606	KBP608	KBP610	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	100	200	400	600	800	1000	V
Average Rectified Output Current	$I_{(AV)}$	6						A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	165						A
Forward Voltage per element @IF =3.0A DC	$V_F$	1.0						V
Maximum DC Reverse Current @Tj=25°C at Rated DC Blocking Voltage @Tj=25°C	$I_R$	10 500						μA
I2t Rating for Fusing(3ms≤t≤8.3ms)	$I^2t$	93						A <sup>2</sup> S
Maximum Typical Thermal Resistanc	wwithout heatsink	$R_{\theta JA}$						°C/W
	wwith heatsink	55						
	wwithout heatsink	$R_{\theta JC}$						
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55 ~ +150						°C

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

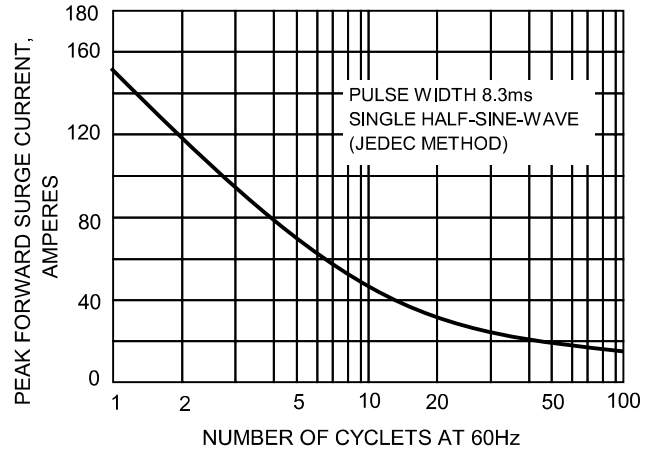
(2) Device mounted on 50mm\*50mm\*1.6mm Cu plate heatsink

**Ratings And Characteristic Curves**

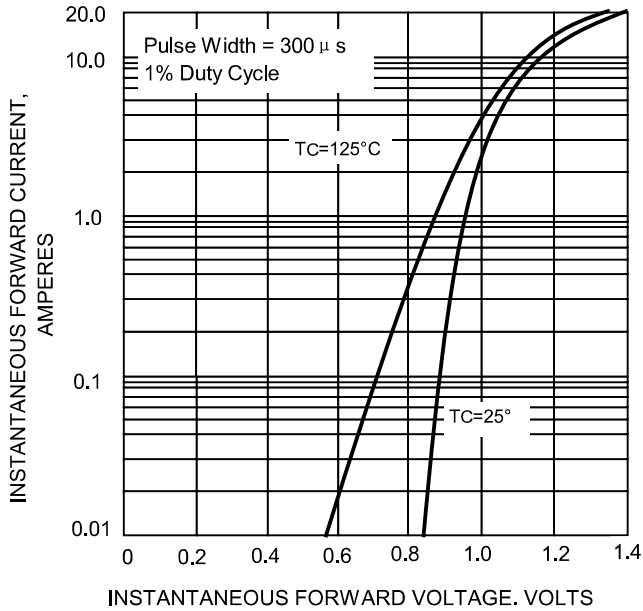
**FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT**



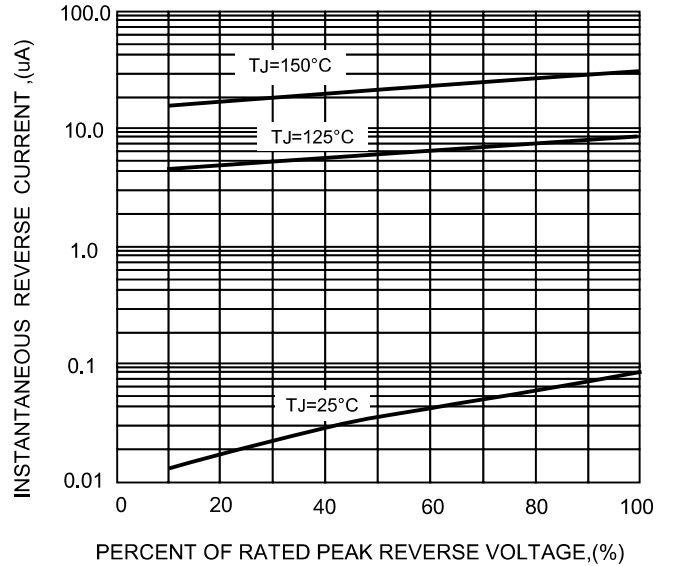
**FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT**



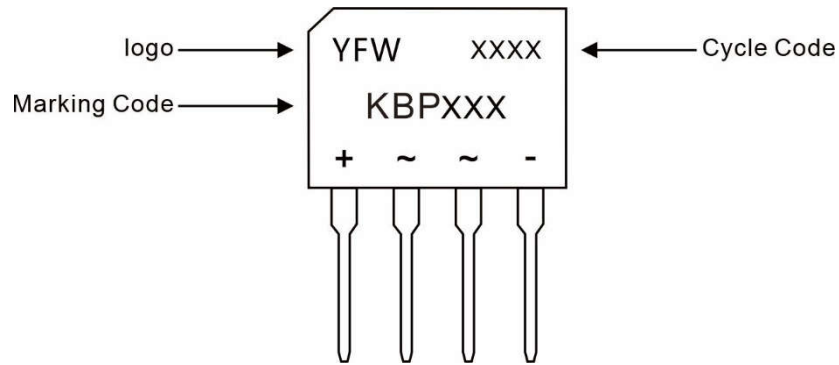
**FIG.3-TYPICAL FORWARD CHARACTERISTICS**



**FIG.5-TYPICAL REVERSE CHARACTERISTICS**



**Marking Diagram**



**Ordering information**

Package	Packing Description	Packing Quantity
KBP	bulk	500PCS/Box 5000PCS/Carton

**Package Dimensions**

**KBP**

Dim.	Millimeter(mm)		Dimensions inInch	
	Min.	Max.	Min.	Max.
A	14.3	14.60	0.56	0.57
B	3.0	3.3	0.12	0.13
c	10.45	10.75	0.41	0.42
D	14.41	14.71	0.57	0.58
d	1.40	1.70	0.06	0.07
E	2.0	2.30	0.09	0.09
F	0.90	1.20	0.04	0.05
G	3.50	3.80	0.14	0.15
H	0.35	0.37	0.01	0.01
I	1.43	1.45	0.06	0.06
J	0.8	0.83	0.03	0.03
K	2.7×45° (Typ)		0.11×45° (Typ)	
L	#	3°	#	3°
M	#	2°	#	2°

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