



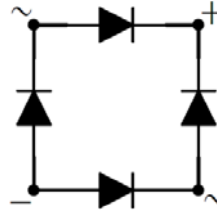
KBPC35005 thru KBPC3510



Glass Passivated Bridge Rectifiers



KBPC



Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Plastic material-UL flammability 94V-0

Primary Characteristics

I_F	35	A
V_{RRM}	50~1000	V
I_{FSM}	400	A
V_F	1.1	V
T_J max	150	°C

Ordering Information

Part No.	Remark	Package	Packing
KBPC35005 thru KBPC3510	General	KBPC	50 / Box
KBPC35005 thru KBPC3510-H	Halogen Free		

Mechanical Data

- Case:KBPC , Molded plastic
- Terminals:Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity:As Marked on Case
- Mounting Position:Any
- Marking:Type Number
- Lead Free:For RoHS/Lead Free Version

Maximum Ratings (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	KBPC 35005	KBPC 3501	KBPC 3502	KBPC 3504	KBPC 3506	KBPC 3508	KBPC 3510	UNIT
Peak Repetitive Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	V_{RWM}								
DC Blocking Voltage	V_{DC}								
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@TC=90°C	$I_{F(AV)}$	35.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	400							A
I ² t Rating for Fusing (t < 8.3ms)	I ² t	664.0							A ² s
Forward Voltage per element @IF=25.0A	V_{FM}	1.1							V
Peak Reverse Current @TA=25°C At Rated DC Blocking Voltage @TA=125°C	I_R	5.0 500							µA
Typical Junction Capacitance per leg(Note 2)	C_j	300							pF
Typical Thermal Capacitance per leg	$R_{\theta JC}$	1.2							°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150							°C

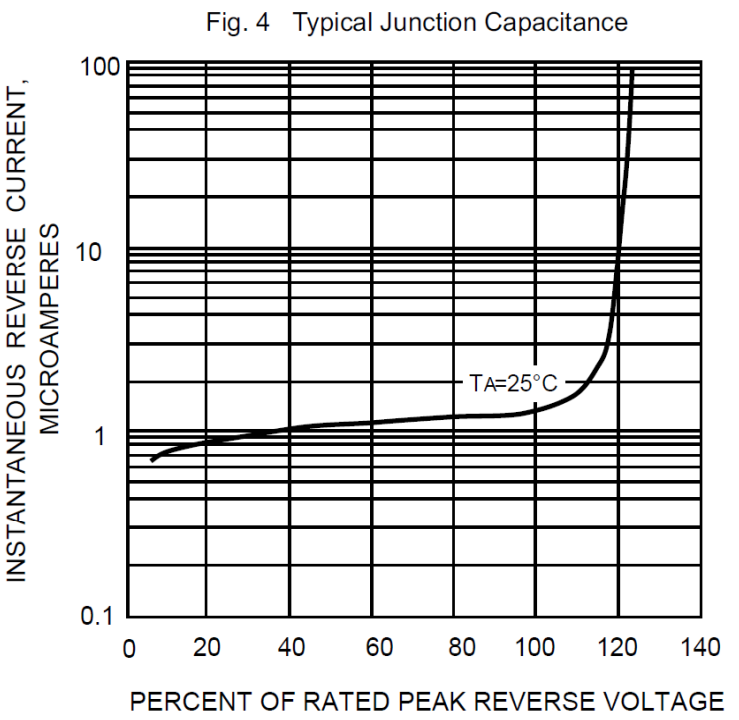
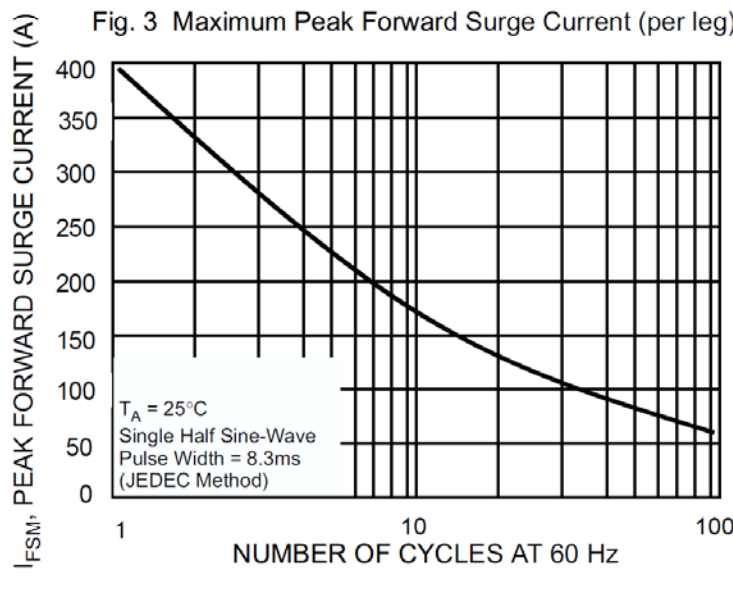
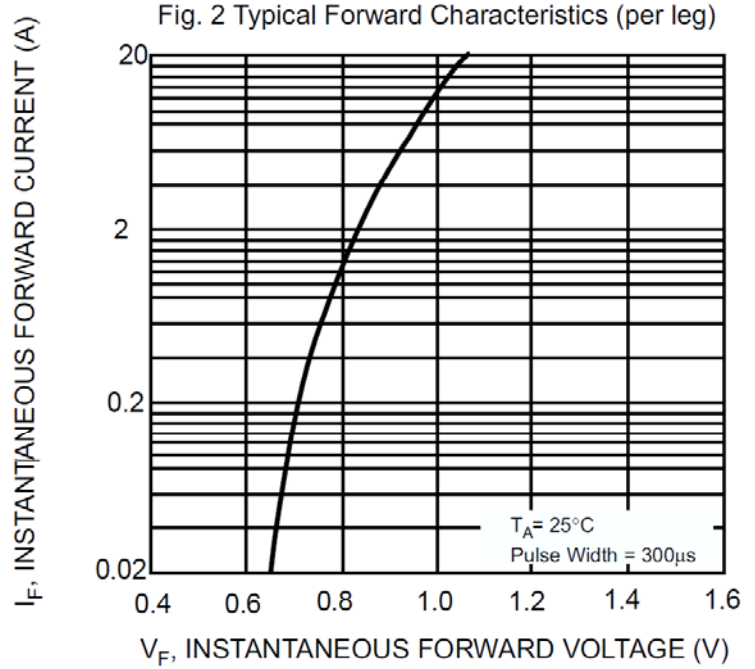
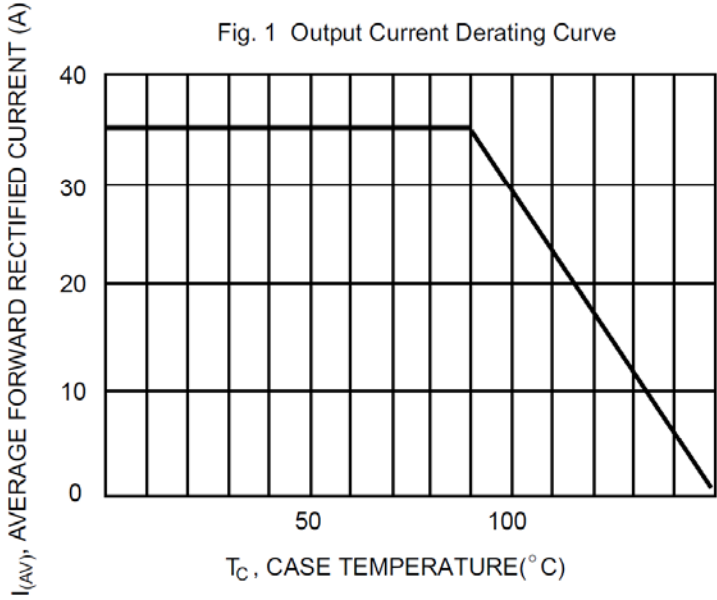
NOTES:1.Mounted 35mm x35mm x17mm Al Plate Heatsink.

2.Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



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Rating and Characteristics Curves



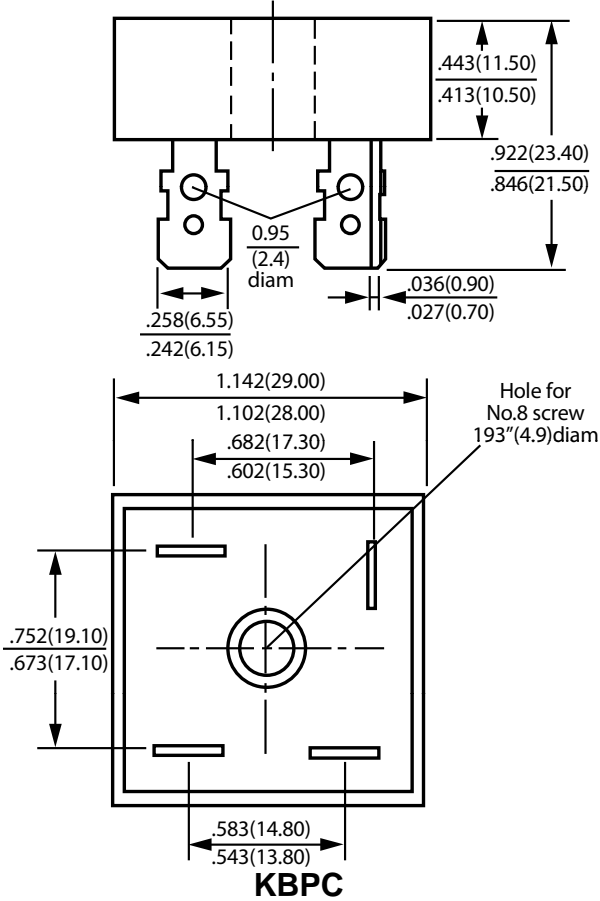


KBPC35005 thru KBPC3510



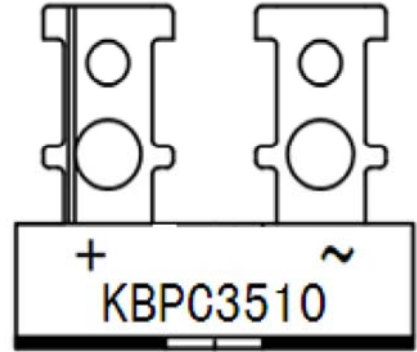
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Package Outline Dimensions



Dimensions in inches and (millimeters)

Marking Information



Bulk Packing

Package	Inner	Inner Box	Inner Box	Carton	Carton Size	Gross Weight
	Pack	(EA)	(mm)	(EA)	(mm)	(K)-Approx.
KBPC	BOX	50	200*170*34	400	360*215*150	0.4