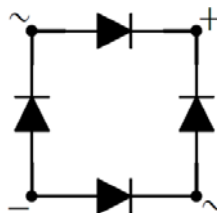




# KBPC25005 thru KBPC2510



## Glass Passivated Bridge Rectifiers



Features
<ul style="list-style-type: none"> <li>• Glass passivated die construction</li> <li>• Low forward voltage drop</li> <li>• High current capability</li> <li>• High surge current capability</li> <li>• Plastic material-UL flammability 94V-0</li> </ul>

Primary Characteristics		
$I_F$	25	A
$V_{RRM}$	50~1000	V
$I_{FSM}$	350	A
$V_F$	1.1	V
$T_J$ max	150	°C

Ordering Information			
Part No.	Remark	Package	Packing
KBPC25005 thru KBPC2510	General	KBPC	50 / Box
KBPC25005 thru KBPC2510-H	Halogen Free		

Mechanical Data
<ul style="list-style-type: none"> <li>• Case:KBPC , Molded plastic</li> <li>• Terminals:Plated Leads Solderable per MIL-STD-202, Method 208</li> <li>• Polarity:As Marked on Case</li> <li>• Mounting Position:Any</li> <li>• Marking:Type Number</li> <li>• Lead Free:For RoHS/Lead Free Version</li> </ul>

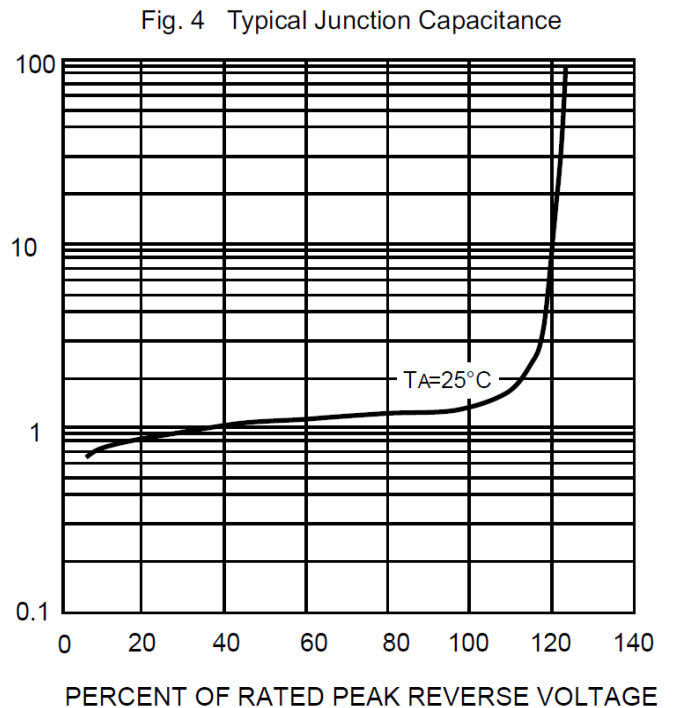
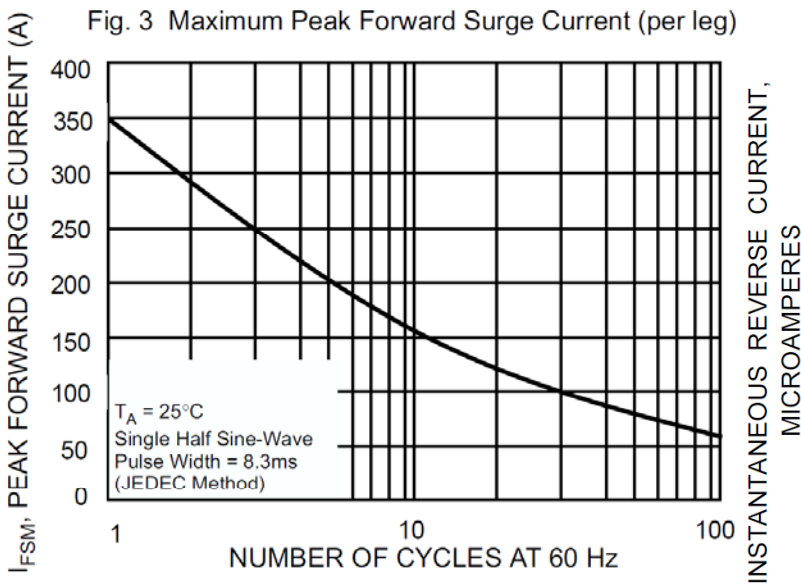
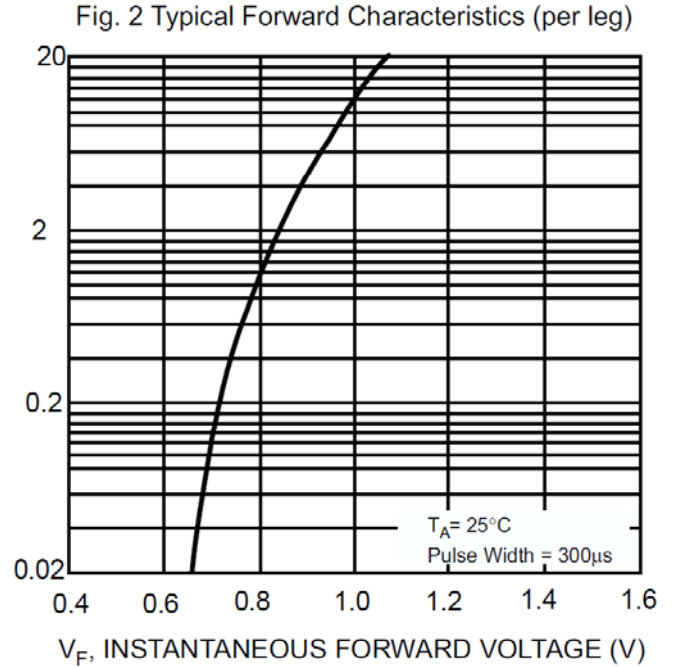
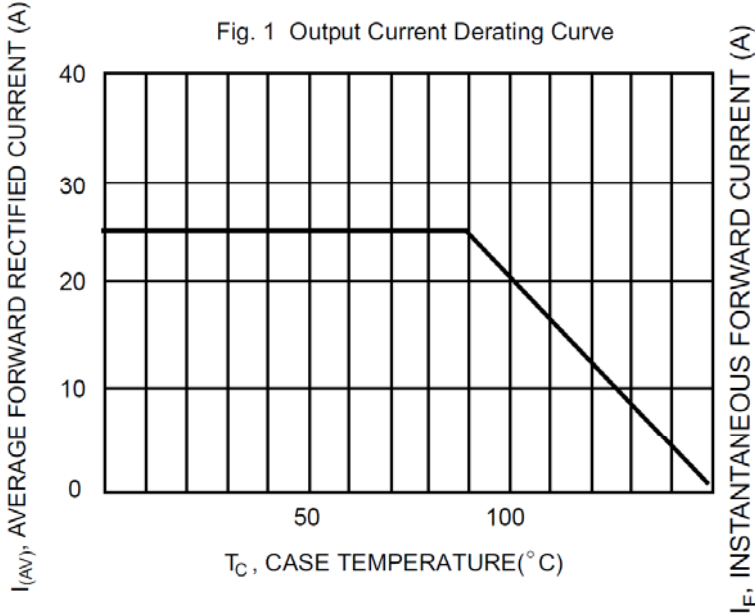
Maximum Ratings (TA=25°C unless otherwise noted)									
PARAMETER	SYMBOL	KBPC 25005	KBPC 2501	KBPC 2502	KBPC 2504	KBPC 2506	KBPC 2508	KBPC 2510	UNIT
Peak Repetitive Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	$V_{RWM}$								
DC Blocking Voltage	$V_{DC}$								
RMS Reverse Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@TC=90°C	$I_{F(AV)}$	25.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	350							A
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	I <sup>2</sup> t	373.5							A <sup>2</sup> s
Forward Voltage per element @IF=25.0A	$V_{FM}$	1.1							V
Peak Reverse Current @TA=25°C	$I_R$	5.0							µA
At Rated DC Blocking Voltage @TA=125°C		500							
Typical Junction Capacitance per leg(Note 2)	$C_j$	300							pF
Typical Thermal Capacitance per leg	$R_{\theta JC}$	1.4							°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.



# Glass Passivated Bridge Rectifiers

## Rating and Characteristics Curves



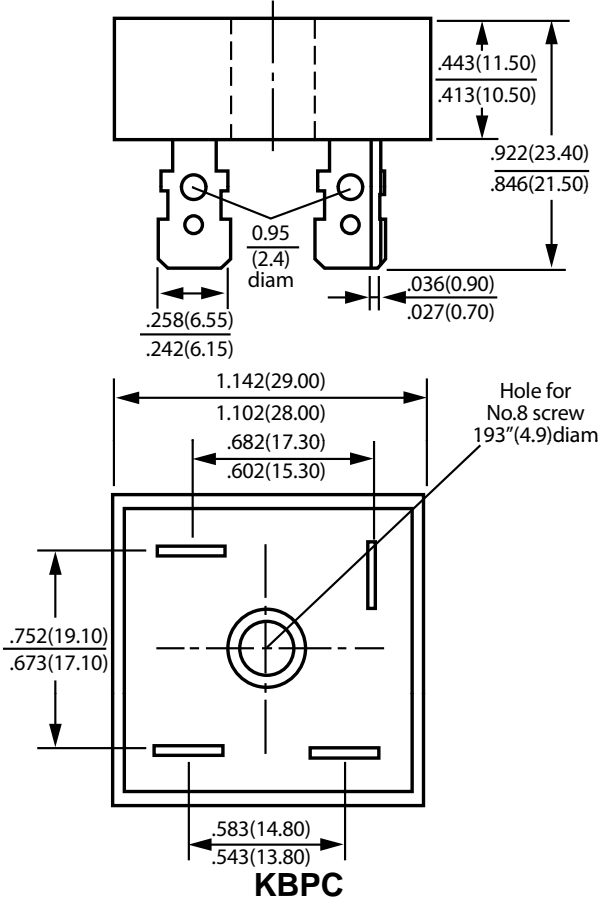


# KBPC25005 thru KBPC2510



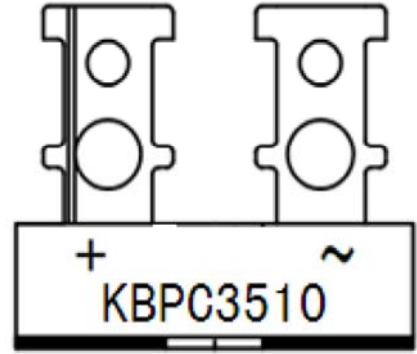
## Glass Passivated Bridge Rectifiers

### 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