

GBPC25005 THRU GBPC2516

Class Dessiveted Bridge Destifiers	Reverse Voltage - 50 to 1600 Volts Forward Current - 25 Amperes							
Glass Passivated Bridge Rectifiers								
Features ● Glass passivated chip	GBPC							
Low forward voltage drop Meet UL flammability classification 94V-0								
 Mechanical Data Polarity: Symbol marked on body Mounting position: Any 	1.113 (28.8) Hole for 1.114 (28.3) No.8 Screw							
Applications • General purpose use in AC/DC bridge full wave rectification, for home appliances, office equipment, etc.	-732 (18.6) -732 (18.6) -732 (18.6) -733 (17.1) -733							
Maximum Ratings and Electrical Characteristics Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.	Package Outline Dimensions in Inches (Millimeters)							

For capacitive load, derate current by 20%.

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Symbol	GBPC	GBPC	GBPC	GBPC	GBPC	GBPC	GBPC	GBPC	GBPC	GBPC	Unit
	25005	2501	2502	2504	2506	2508	2510	2512	2514	2516	
Vrrm	50	100	200	400	600	800	1000	1200	1400	1600	V
Vrms	35	70	140	280	420	560	700	840	980	1120	V
l(AV)	25										А
250									A		
IF SM	300										
l ² t	508.4									A ² s	
VF	1.1									V	
5											
IK	500									μA	
TJ	-55 to +150									°C	
Tstg	-55 to +150									°C	
	VRRM VRMS I(AV) IFSM I ² t VF IR TJ	Symbol 25005 VRRM 50 VRMS 35 I(AV)	Symbol Image: second seco	Symbol 25005 2501 2502 VRRM 50 100 200 VRMS 35 70 140 I(AV)	Symbol Image: Second seco	Symbol Image: Second seco	Symbol 25005 2501 2502 2504 2506 2508 VRRM 50 100 200 400 600 800 VRMS 35 70 140 280 420 560 I(AV) 560 38 I(AV) 38 38 I ² t 500 38 VF 500 500 IR 500 500 TJ 500 500	$\begin{tabular}{ c c c c c c c } \hline Symbol & 2500 & 2501 & 2502 & 2504 & 2506 & 2508 & 2510 \\ \hline VRM$ & 50 & 100 & 200 & 400 & 600 & 800 & 1000 \\ \hline VRM$ & 35 & 70 & 140 & 280 & 420 & 560 & 700 \\ \hline I(AV)$ & $$$VT $$$$$$$$$$$$$$$$$$$$$$$$$$$$$	$\begin{tabular}{ c c c c c c c c c c c } \hline Symbol & \hline 25005 & 2501 & 2502 & 2504 & 2506 & 2508 & 2510 & 2512 \\ \hline $25005 & 2501 & 2502 & 2504 & 2506 & 2508 & 2510 & 2512 \\ \hline VRM & $50 & 100 & 200 & 400 & 600 & 800 & 1000 & 1200 \\ \hline VRM & $35 & 70 & 140 & 280 & 420 & 560 & 700 & 840 \\ \hline $I(AV)$ & $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$	Symbol 25005 2501 2502 2504 2506 2508 2510 2512 2514 VRM 50 100 200 400 600 800 1000 1200 1400 VRMS 35 70 140 280 420 560 700 840 980 I(AV) 3550 <td< td=""><td>Symbol 25005 2501 2502 2504 2506 2508 2510 2512 2514 2516 VRM 50 100 200 400 600 800 1000 1200 1400 1600 VRMS 35 70 140 280 420 560 700 840 980 1120 I(AV) 3550</td></td<>	Symbol 25005 2501 2502 2504 2506 2508 2510 2512 2514 2516 VRM 50 100 200 400 600 800 1000 1200 1400 1600 VRMS 35 70 140 280 420 560 700 840 980 1120 I(AV) 3550



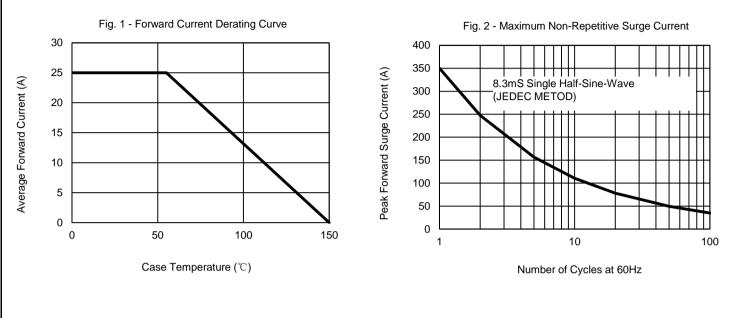
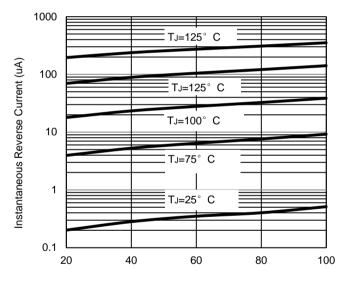
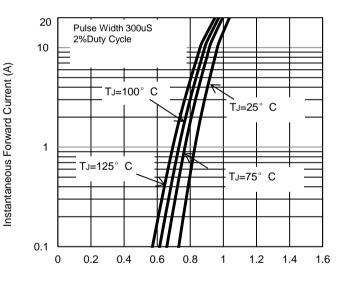


Fig. 3 - Typical Reverse Characteristics



Percent of Rated Peak Reverse Voltage (%)

Fig. 4 - Typical Forward Characteristics



Instantaneous Forward Voltage (V)

The curve above is for reference only.