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GBJ15005 THRU GBJ1510

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15A Miniature Glass Passivated Single-Phase Bridge Rectifiers

■ Features				■ Outline						
 Surge overload ratings to 220 amperes peak. Recommended for non-automatic applications. Ideal for & save space on printed circuit board 				GBJ						
 Applicable for automatic insertion. Reliable low cost construction utilizing molded plastic technology results in inexpensive product. 				hole for #6 screw 1.169(29.7)						
 Glass passivated chip junctions. Suffix "G" indicates Halogen-free part, ex.GBJ15005G. Lead-free parts meet RoHS requirments. 				. <u>106(2.7)</u> . <u>096(2.3)</u> . <u>106(2.7)</u> . <u>1154(3.9)</u>						
Mechanical data				$\begin{array}{c c} .094(2.4) \\ \hline .078(2.0) \\ \hline .031(0.8) \\ \hline .035(0.9) \\ \hline \\ .035(0.9) \\ \hline \\ .035(0.9) \\ \hline \\ .031(0.8) \\ \hline .031(0.8) \\ \hline .031(0.8) \\ \hline .031(0.8) \\ \hline .023(0.6) \\ \hline .$						
Epoxy:UL94-V0 rated flame retardant				402	303 303	.708	.423(10 3(18.0)	5.0)		
ded plastic, GE	3J			.386	.287 .287	.699	9(17.0)			
Solder plated	, solderable pe	er S		(9.80)	(7.3) (7.3)					
arked on body	/									
osition : Any				Dimensio	ns in inche	es and (mil	imeters)			
oproximated 7	.00 gram									
m ratings ar ^o C ambient ter ve load, derate	nd electrica mperature unl current by 20	I characteristics ess otherwise spec %.	S cified. Single phase	e, half wav	e, 60Hz, r	esistive c	r inductiv	ve load.		
Parameter			Conditions			MIN.	TYP.	MAX.	UNIT	
Forward rectified current			with heatsink $T_c = 100^{\circ}C$					15	А	
Forward surge current			8.3ms single half sine-wave superimposed on rate load (JEDEC method)					220	А	
Poverse current			$V_{R} = V_{RRM} T_{A} = 25^{\circ}C$					10		
Reverse current			$V_{R} = V_{RRM} T_{A} = 125^{\circ}C$					500	uA	
Current squared time			t < 8.3ms, T_ = 25°C					200	A ² S	
Thermal resistance			junction to ambient					22	°C/W	
Storage temperature					T _{stg}	-55		+150	°C	
Marking code	Max. repetitive pea reverse volta V _{RRM} (V)	ak ge Max. RMS voltage V _{RMS} (V)	Max. DC blocking voltage V _R (V)	Max @	. forward voltage 7.5A, T _A = 25°C V _F (V)		Operating temperature T _J (°C)			
GBJ15005	50	35	50							
GBJ1501	100	70	100		1.1 -55 ~ +150					
GBJ1502	200	140	200							
			100							
GBJ1504	400	280	400		1.1			-55 ~ +1	50	
GBJ1504 GBJ1506	400 600	280 420	400 600		1.1			-55 ~ +1	50	
GBJ1504 GBJ1506 GBJ1508	400 600 800	280 420 560	400 600 800		1.1			-55 ~ +1	50	
	cal data (cost constru- results in ine- vated chip jur dicates Halog arts meet Ro cal data 4-V0 rated flar ed plastic, GE Solder plated MIL-STD-750 arked on body osition : Any proximated 7 n ratings at C ambient ter e load, derate neter ed current current ance rature flarking code GBJ15005 GBJ1501 GBJ1502	oad ratings to 220 amperes ded for non-automatic appli ave space on printed circuit or automatic insertion. / cost construction utilizing i results in inexpensive prodivated chip junctions. dicates Halogen-free part, or arts meet RoHS requirment A-V0 rated flame retardant ed plastic, GBJ Solder plated, solderable per MIL-STD-750, Method 2026 arked on body osition : Any proximated 7.00 gram n ratings and electrica C ambient temperature unle eload, derate current by 20 neter ad current it d time ance repetitive pear requiring code Marking code Max. repetitive pear reverse voltag V_RRM (V) GBJ1501 100 GBJ1502 200	$\frac{1}{3}$ oad ratings to 220 amperes peak. ded for non-automatic applications. ave space on printed circuit board. or automatic insertion. \prime cost construction utilizing molded plastic results in inexpensive product. vated chip junctions. dicates Halogen-free part, ex.GBJ15005G. arts meet RoHS requirments. $\frac{cal data}{4-V0 rated flame retardant}$ ed plastic, GBJ Solder plated, solderable per MIL-STD-750, Method 2026 arked on body osition : Any proximated 7.00 gram n ratings and electrical characteristics C ambient temperature unless otherwise spee e load, derate current by 20%. neter ed current with heatsink T _c = current $\frac{1}{100}$ $\frac{V_R = V_{RRM} T_A = 25}{V_R = V_{RRM} T_A = 12}{V_R = V_{RRM} T_A = 12}{V_{RM} V_{RM} V_A = 25}{V_{RM} V_{RM} (V)}$ $\frac{1}{GBJ15005}$ $\frac{50}{50}$ $\frac{35}{GBJ1501}$ $\frac{100}{70}$ $\frac{70}{GBJ1502}$ $\frac{100}{100}$ $\frac{100}{70}$		= Outline oad ratings to 220 amperes peak. ded for non-automatic applications. ave space on printed circuit board. or automatic insertion. Cost construction utilizing molded plastic results in inexpensive product. vated chip junctions. dicates Halogen-free part, ex. GBJ15005G. arts meet RoHS requirments. $\frac{cal data}{t-V0 rated flame retardant}$ ed plastic, GBJ Solder plated, solderable per MIL-STD-750, Method 2026 arked on body position : Any proximated 7.00 gram n ratings and electrical characteristics C ambient temperature unless otherwise specified. Single phase, half wave el oad, derate current by 20%. $\frac{neter}{V_{RBW}} T_{A} = 25^{\circ}C$ $\frac{V_{R}}{V_{RBW}} T_{A} = 25^{\circ}C$ $\frac{V_{R}}{V_{RW}} T_{A} =$			= 0 outline GBJ GBJ GBJ GBJ GBJ GBJ GBJ GBJ	$\frac{1}{1000} = \frac{1}{1000} = \frac{1}{10000} = \frac{1}{10000} = \frac{1}{100000} = \frac{1}{10000000000000000000000000000000000$	



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