GBJ8005 THRU GBJ810

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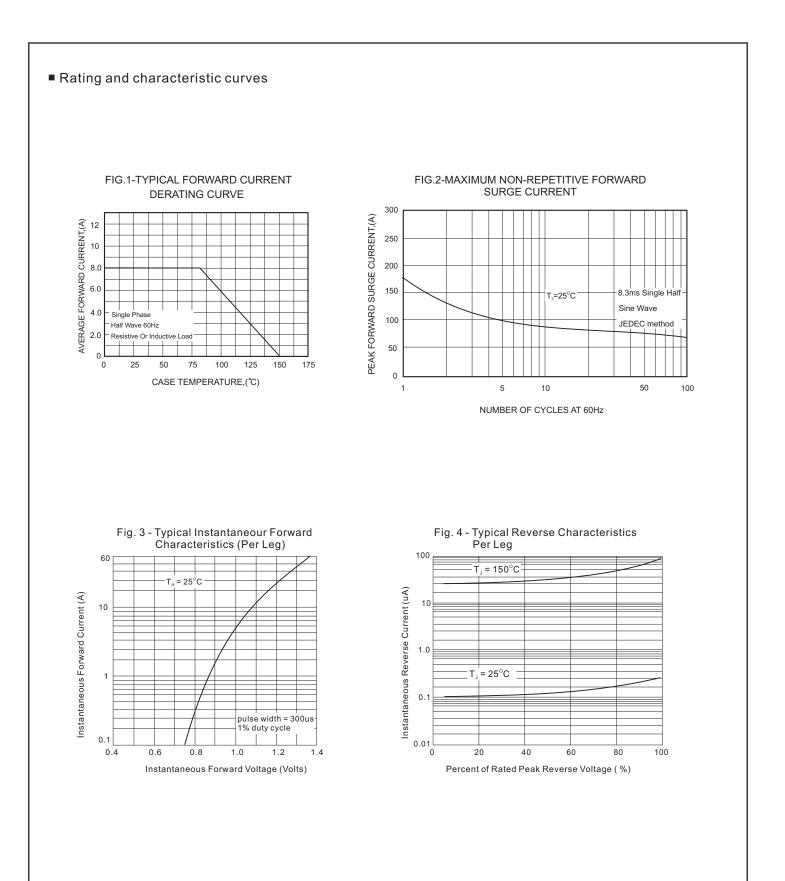
8A Miniature Glass Passivated Single-Phase Bridge Rectifiers

	res			Outline	e					
Recomm Ideal for	erload ratings to ended for non-a & save space on le for automatic	utomatic appli printed circui	cations.	GBJ						
	low cost constru		molded plastic	hole for	1.19	93(30.3)	.18 .17	39(4.8) 73(4.4)	.150(3.8)	
technology results in inexpensive proc • Glass passivated chip junctions.			uct.	#6 screw		9(29.7)			.134(3.4)	
	" indicates Halo		ex.GBJ8005G.			\$_	8(5.8 9(4.8 20.3) 19.7)			
	e parts meet Ro					Ŷ	.776(t f	▲	
				<u>.106(2.7)</u> .096(2.3) <u>.094(2.4</u> 078(2.0			50(3.8)		.154(3.9) .134(3.4)	
Mecha	anical data		.043(1.1) .035(0.9) ↓ ↓ ↓ ↓ ↓				11.	$ \underbrace{ \bullet \underbrace{ .031(0.8) }_{.023(0.6)} }_{.441(11.2)} $		
• Epoxy:U	L94-V0 rated fla	me retardant					70	.425(10	0.8)	
• Case : M	olded plastic, Gl	BJ			.402	.303 .303	.69	08(18.0) 09(17.0)		
 Terminal 	s : Solder plated	•			<u>(10.2)</u> (9.80)	(7.7) $(7.7)(7.3)$ (7.3)				
• Polarity :	MIL-SID-750 marked on body	0, Method 202	ö							
	Position : Any	y			Dimensio	ns in inche	es and (mi	llimeters)		
	Approximated 7	'.00 gram						,		
■ Maxim	ium ratings a	nd electrica	Il characteristic	S						
Rating at 2 For capac	25°C ambient te itive load, derate	mperature un	less otherwise spe %.	cified. Single phase	, half wav			1		
Rating at 2 For capac Pa	25°C ambient te itive load, derate rameter	mperature un	less otherwise spe %.	cified. Single phase Conditions	, half wav	Symbol	esistive MIN.	or inductiv	MAX.	UNIT
Rating at 2 For capac Pa Forward rec	25°C ambient te itive load, derate rameter tified current	mperature un	less otherwise spe %. with heatsink T _c =	cified. Single phase Conditions 82°C				1		UNIT A
Rating at 2 For capac Pa Forward rec	25°C ambient te itive load, derate rameter tified current	mperature un	less otherwise spe %. with heatsink T _c =	cified. Single phase Conditions 82°C sine-wave superimpo		Symbol		1	MAX.	
Rating at 2 For capac Pa Forward rec Forward sur	25°C ambient te itive load, derate rameter tified current ge current	mperature un	less otherwise spe %. with heatsink $T_c =$ 8.3ms single half s rate load (JEDEC $V_R = V_{RRM} T_A = 25$	cified. Single phase Conditions 82°C sine-wave superimpo method) 5°C		Symbol I _o I _{FSM}		1	MAX. 8.0	A
Rating at 2 For capac Pa Forward rec Forward sur	25°C ambient te itive load, derate rameter tified current ge current	mperature un	less otherwise spe %. with heatsink $T_c =$ 8.3ms single half s rate load (JEDEC $V_R = V_{RRM} T_A = 25$ $V_R = V_{RRM} T_A = 12$	cified. Single phase Conditions 82°C sine-wave superimpo method) 5°C 25°C		Symbol I _o I _{FSM}		1	MAX. 8.0 170	A A uA
Rating at 2 For capac Pa Forward rec Forward sur Reverse cur	25°C ambient te itive load, derate rameter tified current ge current rent	mperature un	less otherwise spe %. with heatsink $T_c =$ 8.3ms single half s rate load (JEDEC $V_R = V_{RRM} T_A = 25$	cified. Single phase Conditions 82°C sine-wave superimpo method) 5°C 25°C		Symbol I _o I _{FSM} I _R I ² t		1	MAX. 8.0 170 10 500 120	A A uA A ² S
Rating at 2 For capac Pa Forward rec Forward sur Reverse cur Current squ	25°C ambient te itive load, derate rameter tified current ge current rent ared time	mperature un	less otherwise spe %. with heatsink $T_c =$ 8.3ms single half s rate load (JEDEC $V_R = V_{RRM} T_A = 25$ $V_R = V_{RRM} T_A = 12$	cified. Single phase Conditions 82°C sine-wave superimpo method) 5°C 25°C °C		Symbol I _o I _{FSM}	MIN.	1	MAX. 8.0 170 10 500	A A uA A ² S °C/W
Rating at 2 For capac Pa Forward rec Forward sur Reverse cur Current squ Thermal res	25°C ambient te itive load, derate rameter tified current ge current rent ared time istance	mperature un	less otherwise spe %. with heatsink $T_c =$ 8.3ms single half s rate load (JEDEC $V_R = V_{RRM} T_A = 25$ $V_R = V_{RRM} T_A = 12$ t < 8.3ms, $T_J = 25$	cified. Single phase Conditions 82°C sine-wave superimpo method) 5°C 25°C °C		Symbol I _o I _{FSM} I _R I ² t		1	MAX. 8.0 170 10 500 120	A A uA A ² S
Rating at 2 For capac Pa Forward rec Forward sur Reverse cur Current squ Thermal res	25°C ambient te itive load, derate rameter tified current ge current rent ared time istance	mperature un	less otherwise spe %. with heatsink $T_c =$ 8.3ms single half s rate load (JEDEC $V_R = V_{RRM} T_A = 23$ $V_R = V_{RRM} T_A = 12$ $t < 8.3ms, T_J = 25$ junction to ambien	cified. Single phase Conditions 82°C sine-wave superimpo method) 5°C 25°C °C	osed on	Symbol I _o I _{FSM} I _R I ² t R _{ØJA}	MIN.	TYP.	MAX. 8.0 170 10 500 120 25	A A uA A ² S °C/W °C
Rating at 2 For capac Pa Forward rec Forward sur Reverse cur Current squ Thermal res Storage tem	25°C ambient te itive load, derate rameter tified current ge current rent ared time istance perature	mperature un e current by 20 Max. repetitive pea reverse volta	less otherwise spe %. with heatsink $T_c =$ 8.3ms single half s rate load (JEDEC $V_R = V_{RRM} T_A = 25$ $V_R = V_{RRM} T_A = 12$ t < 8.3ms, $T_J = 25$ junction to ambien	cified. Single phase Conditions 82°C sine-wave superimpo method) 5°C 25°C °C t Max. DC blocking voltage	osed on	Symbol I_{o} I_{FSM} I_{R} $I^{2}t$ R_{0JA} T_{STG} forward 9 94A, $T_{A} = 2$	MIN.	TYP.	MAX. 8.0 170 10 500 120 25 +150	A A uA A ² S °C/W °C
Rating at 2 For capac Pa Forward rec Forward sur Reverse cur Current squ Thermal res Storage tem Symbol	25°C ambient te itive load, derate rameter tified current ge current rent ared time istance perature Marking code	Max. repetitive pear reverse volta V _{RRM} (V)	less otherwise spe %. with heatsink $T_c =$ 8.3ms single half s rate load (JEDEC $V_R = V_{RRM} T_A = 25$ $V_R = V_{RRM} T_A = 12$ t < 8.3ms, $T_J = 25$ junction to ambien	cified. Single phase Conditions 82°C sine-wave superimpo method) 5°C 25°C °C t t Max. DC blocking voltage V _R (V)	osed on	Symbol I_{o} I_{FSM} I_{R} $I^{2}t$ R_{0JA} T_{STG} forward 9 94A, $T_{A} = 2$	MIN.	TYP.	MAX. 8.0 170 10 500 120 25 +150	A A uA A ² S °C/W °C
Rating at 2 For capac Pa Forward rec Forward sur Reverse cur Current squ Thermal res Storage tem Symbol GBJ8005	25°C ambient te itive load, derate rameter tified current ge current rent ared time istance perature Marking code GBJ8005	Max. repetitive pea reverse volta V _{RRM} (V) 50	less otherwise spe %. with heatsink $T_c =$ 8.3ms single half s rate load (JEDEC $V_R = V_{RRM} T_A = 29$ $V_R = V_{RRM} T_A = 12$ t < 8.3ms, $T_J = 25$ junction to ambien	cified. Single phase Conditions 82°C sine-wave superimpore method) 5°C 25°C 25°C °C t t Max. DC blocking voltage V _R (V) 50	osed on	Symbol I_{o} I_{FSM} I_{R} $I^{2}t$ R_{0JA} T_{STG} forward 9 94A, $T_{A} = 2$	MIN.	TYP.	MAX. 8.0 170 10 500 120 25 +150	A A uA A ² S °C/W °C
Rating at 2 For capac Pa Forward rec Forward sur Reverse cur Current squ Thermal res Storage tem Symbol GBJ8005 GBJ801	25°C ambient te itive load, derate rameter tified current ge current rent ared time istance perature Marking code GBJ8005 GBJ801	Max. repetitive pea reverse volta V _{RRM} (V) 50 100	less otherwise spe %. with heatsink $T_c =$ 8.3ms single half s rate load (JEDEC $V_R = V_{RRM} T_A = 29$ $V_R = V_{RRM} T_A = 12$ t < 8.3ms, $T_J = 25$ junction to ambien Max. RMS voltage $V_{RMS} (V)$ 35 70	cified. Single phase Conditions 82°C sine-wave superimpore method) 5°C 25°C °C t Max. DC blocking voltage V _R (V) 50 100	osed on	Symbol I_{o} I_{FSM} I_{R} $I^{2}t$ R_{0JA} T_{STG} forward 9 94A, $T_{A} = 2$	MIN.	TYP.	MAX. 8.0 170 10 500 120 25 +150	A A uA A ² S °C/W °C
Rating at 2 For capac Pa Forward rec Forward sur Reverse cur Current squ Thermal res Storage tem Symbol GBJ8005 GBJ801 GBJ802	25°C ambient te itive load, derate rameter tified current ge current rent ared time istance perature Marking code GBJ8005 GBJ801 GBJ802	Max. repetitive pea reverse volta V _{RRM} (V) 50 100 200	less otherwise spe %. with heatsink $T_c =$ 8.3ms single half s rate load (JEDEC $V_R = V_{RRM} T_A = 25$ $V_R = V_{RRM} T_A = 12$ t < 8.3ms, $T_J = 25$ junction to ambien ak ge Max. RMS voltage $V_{RMS} (V)$ 35 70 140	cified. Single phases Conditions 82°C sine-wave superimpore method) 5°C 25°C °C t t Max. DC blocking voltage V _R (V) 50 100 200	osed on	Symbol I_{o} I_{FSM} I_{R} $I^{2}t$ R_{0JA} T_{STG} . forward V $Q4A, T_{A} = 2$ $V_{F}(V)$	MIN.	TYP.	MAX. 8.0 170 10 500 120 25 +150 ating tem T _J (°C)	A A uA A ² S °C/W °C
Rating at 2 For capac Pa Forward rec Forward sur Reverse cur Current squ Thermal res Storage tem Symbol GBJ8005 GBJ801 GBJ802 GBJ804	25°C ambient te itive load, derate rameter tified current ge current rent ared time istance perature Marking code GBJ8005 GBJ801 GBJ802 GBJ804	Max. repetitive pea reverse volta V _{RRM} (V) 50 100 200 400	less otherwise spe %. with heatsink $T_c =$ 8.3ms single half s rate load (JEDEC $V_R = V_{RRM} T_A = 25$ $V_R = V_{RRM} T_A = 12$ t < 8.3ms, $T_J = 25$ junction to ambien Akge Max. RMS voltage V_{RMS} (V) 35 70 140 280	cified. Single phase. Conditions 82°C sine-wave superimpore method) 5°C 25°C °C t Max. DC blocking voltage V _R (V) 50 100 200 400	osed on	Symbol I_{o} I_{FSM} I_{R} $I^{2}t$ R_{0JA} T_{STG} . forward V $Q4A, T_{A} = 2$ $V_{F}(V)$	MIN.	TYP.	MAX. 8.0 170 10 500 120 25 +150 ating tem T _J (°C)	A A uA A ² S °C/W °C



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