



苏州固得电子股份有限公司

SUZHOU GOOD-ARK ELECTRONIC CO., LTD

AUTOMOTIVE RECTIFIER

制造厂家: 苏州固得电子股份有限公司

作成年月日: 2013-11-06

作成部门: 汽车电子事业部

批准人: 王利梅

一: 客户承认签署的内容

请确认并签署记录如下内容

我公司的全称: _____

我司选择的包装形式是: GD 包装 中性包装

我司接受的印字形式是: “GD”印字形式 我司指定的印字形式 (以定单要求为准)

其他特殊要求 (页面不足时可另附说明资料一同签回):

NO.	GD Type	Customer Type	Confirmation	Date	Remark
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

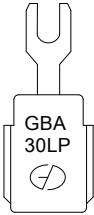
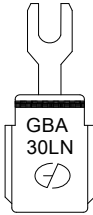
二: 苏州固得电子股份有限公司将严格按照如下规格要求提供产品。

本规格承认书的记载内容如下:

2.1 DATA SHEET (见附件)。

2.2 电性测试报告 (在样品盒内随同样品发出)。

2.3 印字规格 MARKING 例:

GOODARK型号	对应的印字规格
GBA30LP GBA30LN	 



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2.4包装规格/PACKAGING SPECIFICATION

盒装/BP

产品	产品数量K/箱	产品数量K/盒	包装箱尺寸 (mm)			包装箱单重kg	内盒数/箱	满箱包装毛重kg	满箱包装净重kg	满箱包装皮重kg
			长度	宽度	高度					
GPP BLOCK	8.00	0.50	380	295	350	0.74	16	24.1	21.76	2.34

包装分中性和“GD”包装形式二种供选择，或根据客户特殊要求包装。目前固得公司的中性内包装和“GD”标记的内包装的照片如下（外包装形式同）：

<p>暂无照片</p>	
<p>中性包装内部照片</p>	<p>中性包装外部照片</p>
<p>暂无照片</p>	
<p>GD包装内部照片</p>	<p>GD包装外部照片</p>
	
<p>中性外包装箱照片</p>	<p>GD外包装箱照片</p>



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四、DATA SHEET

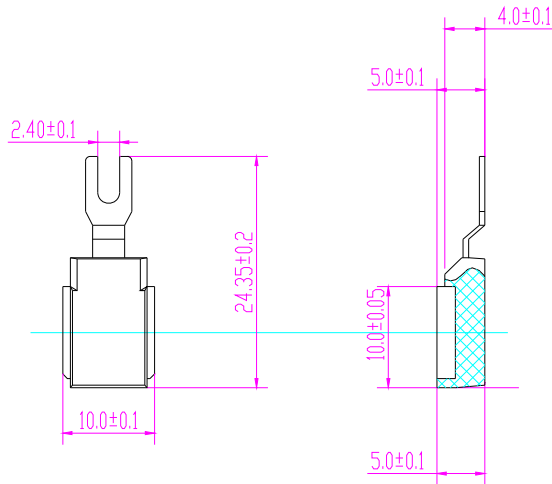
Technical Specification:

Features:

- Low cost
- High power capability
- Economical
- Avalanche Voltage

Mechanical Data:

- Technology : Vacuum soldered
- Copper block with transfer molded plastic
- Glass passivated chip
- Polarity: GB30-P lead-P
GB30-N lead-N
- Lead: Plated lead, solderable per MIL-STD-202E method 208°C
- Mounting: Press Fit
- Weight: 0.096 ounces 2.72 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Rating at 25°C ambient temperature unless otherwise specified.
- Single phase, half wave, 60Hz, resistive or inductive load.
- For capacitive load derate current by 20%.

4.1 30A 19V-25V (GBA30L)

Electrical Characteristics @25°C	SYMBOLS	MIN	NOMINAL	MAX	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}		17		
Working Peak Reverse Voltage	V_{RWM}		17		Volts
DC Blocking Voltage	V_{DC}		17		
Average Rectified Forward Current ($T_C=105^\circ\text{C}$)	I_o		30		Amps
Repetitive Peak Reverse Surge Current $T_C=10\text{msec}$ Duty Cycle <1%	I_{RSM}		30		Amps
Breakdown Voltage ($V_{br}@I_r=100\text{mA}$, $T_C=25^\circ\text{C}$)	V_{br1}	19	22	25	Volts
$I_r=60\text{Amps}$, $T_c=150^\circ\text{C}$, $PW=80\mu\text{ sec}$	V_{br2}			32	Volts
Forward Voltage Drop (V_{fwd})@ $I_f=100\text{Amps}<300\mu\text{ sec}$	V_F	1.0	1.05	1.10	Volts
Peak Forward Surge Current	I_{FSM}		500		Amps
Reverse Leakage ($V_R=20\text{Vdc}$) $T_A=25^\circ\text{C}$	I_R	0.2	1.0	2.0	$\mu\text{ Amps}$
Operating and Storage Junction Temperature Range	T_J, T_{STG}	-40 to+175			$^\circ\text{C}$



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4.2 30A 24V-32V (GBA30Z)

Electrical Characteristics @25°C	SYMBOLS	MIN	NOMINAL	MAX	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	20			Volts
Working Peak Reverse Voltage	V_{RWM}	20			
DC Blocking Voltage	V_{DC}	20			
Average Rectified Forward Current ($T_C=125^\circ\text{C}$)	I_o	30			Amps
Repetitive Peak Reverse Surge Current $T_C=10\text{msec Dury Cycle } <1\%$	I_{RSM}	30			Amps
Breakdown Voltage ($V_{br}@I_r=100\text{mA}, T_C=25^\circ\text{C}$) $I_r=60\text{Amps}, T_c=150^\circ\text{C}, PW=80\mu\text{ sec}$	V_{br1}	24	25/27	32	Volts
	V_{br2}			40	Volts
Forward Voltage Drop (V_{fwd})@ $I_f=100\text{Amps}<300\mu\text{ sec}$	V_F	1.0	1.05	1.10	Volts
Peak Forward Surge Current	I_{FSM}		500		Amps
Reverse Leakage ($V_R=20\text{Vdc}$) $T_A=25^\circ\text{C}$	I_R	0.2	1.0	2.0	$\mu\text{ Amps}$
Operating and Storage Junction Temperature Range	T_J, T_{STG}	-40 to+175			$^\circ\text{C}$

4.3 30A 37V-42V (GBA30M)

Electrical Characteristics @25°C	SYMBOLS	MIN	NOMINAL	MAX	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	28			Volts
Working Peak Reverse Voltage	V_{RWM}	28			
DC Blocking Voltage	V_{DC}	28			
Average Rectified Forward Current ($T_C=125^\circ\text{C}$)	I_o	30			Amps
Repetitive Peak Reverse Surge Current $T_C=10\text{msec Dury Cycle } <1\%$	I_{RSM}	30			Amps
Breakdown Voltage ($V_{br}@I_r=100\text{mA}, T_C=25^\circ\text{C}$) $I_r=60\text{Amps}, T_c=150^\circ\text{C}, PW=80\mu\text{ sec}$	V_{br1}	37	39	42	Volts
	V_{br2}			54	Volts
Forward Voltage Drop (V_{fwd})@ $I_f=100\text{Amps}<300\mu\text{ sec}$	V_F	1.0	1.05	1.10	Volts
Peak Forward Surge Current	I_{FSM}		500		Amps
Reverse Leakage ($V_R=20\text{Vdc}$) $T_A=25^\circ\text{C}$	I_R	0.2	1.0	2.0	$\mu\text{ Amps}$
Operating and Storage Junction Temperature Range	T_J, T_{STG}	-40 to+175			$^\circ\text{C}$



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4.4 40A 19V-25V (GBA40L)

Electrical Characteristics @25°C	SYMBOLS	MIN	NOMINAL	MAX	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	17			Volts
Working Peak Reverse Voltage	V_{RWM}	17			
DC Blocking Voltage	V_{DC}	17			
Average Rectified Forward Current ($T_C=105^\circ\text{C}$)	I_o	40			Amps
Repetitive Peak Reverse Surge Current $T_C=10\text{msec}$ Dury Cycle <1%	I_{RSM}	40			Amps
Breakdown Voltage ($V_{br}@I_r=100\text{mA}$, $T_C=25^\circ\text{C}$) $I_r=60\text{Amps}$, $T_c=150^\circ\text{C}$, $PW=80\mu\text{ sec}$	V_{br1}	19	22	25	Volts
	V_{br2}			32	Volts
Forward Voltage Drop ($V_{fwd}@I_f=100\text{Amps}<300\mu\text{ sec}$)	V_F	0.98	1.04	1.08	Volts
Peak Forward Surge Current	I_{FSM}		600		Amps
Reverse Leakage ($V_R=20\text{Vdc}$) $T_A=25^\circ\text{C}$	I_R	0.2	1.0	2.0	$\mu\text{ Amps}$
Operating and Storage Junction Temperature Range	T_J, T_{STG}	-40 to+175			$^\circ\text{C}$

4.5 40A 24V-32V (GBA40Z)

Electrical Characteristics @25°C	SYMBOLS	MIN	NOMINAL	MAX	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	20			Volts
Working Peak Reverse Voltage	V_{RWM}	20			
DC Blocking Voltage	V_{DC}	20			
Average Rectified Forward Current ($T_C=125^\circ\text{C}$)	I_o	40			Amps
Repetitive Peak Reverse Surge Current $T_C=10\text{msec}$ Dury Cycle <1%	I_{RSM}	40			Amps
Breakdown Voltage ($V_{br}@I_r=100\text{mA}$, $T_C=25^\circ\text{C}$) $I_r=60\text{Amps}$, $T_c=150^\circ\text{C}$, $PW=80\mu\text{ sec}$	V_{br1}	24	25/27	32	Volts
	V_{br2}			40	Volts
Forward Voltage Drop ($V_{fwd}@I_f=100\text{Amps}<300\mu\text{ sec}$)	V_F	0.98	1.04	1.08	Volts
Peak Forward Surge Current	I_{FSM}		600		Amps
Reverse Leakage ($V_R=20\text{Vdc}$) $T_A=25^\circ\text{C}$	I_R	0.2	1.0	2.0	$\mu\text{ Amps}$
Operating and Storage Junction Temperature Range	T_J, T_{STG}	-40 to+175			$^\circ\text{C}$



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4.6 40A 37V-42V (GBA40M)

Electrical Characteristics @25°C	SYMBOLS	MIN	NOMINAL	MAX	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	28			Volts
Working Peak Reverse Voltage	V_{RWM}	28			
DC Blocking Voltage	V_{DC}	28			
Average Rectified Forward Current ($T_C=125^\circ\text{C}$)	I_o	40			Amps
Repetitive Peak Reverse Surge Current $T_C = 10\text{msec}$ Duty Cycle <1%	I_{RSM}	40			Amps
Breakdown Voltage ($V_{br}@I_r=100\text{mA}$, $T_C=25^\circ\text{C}$) $I_r=60\text{Amps}$, $T_c=150^\circ\text{C}$, $PW=80\mu\text{ sec}$	V_{br1}	37	39	42	Volts
	V_{br2}			54	Volts
Forward Voltage Drop (V_{fwd})@ $I_f=100\text{Amps}$ <300 μ sec	V_F	0.98	1.04	1.08	Volts
Peak Forward Surge Current	I_{FSM}		600		Amps
Reverse Leakage ($V_R=20\text{Vdc}$) $T_A=25^\circ\text{C}$	I_R	0.2	1.0	2.0	μ Amps
Operating and Storage Junction Temperature Range	T_J, T_{STG}	-40 to+175			$^\circ\text{C}$

NOTES:

1.Enough heatsink must be considered in application.