

GSAP 5-R Datasheet



DiGi Electronics Part Number	GSAP 5-R-DG
Manufacturer	Bel Fuse Inc.
Manufacturer Product Number	GSAP 5-R
Description	FUSE CERAMIC 5A 250VAC 3AB 3AG
Detailed Description	5 A 250 V AC DC Fuse Cartridge, Ceramic Through Hole 3AB, 3AG, 1/4" x 1-1/4" (Axial)

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Purchase and inquiry

Manufacturer Product Number:

GSAP 5-R

Series:

GSAP

Mounting Type:

Through Hole

Current Rating (Amps):

5 A

Response Time:

Slow Blow

Breaking Capacity @ Rated Voltage:

200A

Approval Agency:

CE, CSA, cULus, PSE

Color:

-

DC Cold Resistance:

0.029 Ohms

Manufacturer:

Bel Fuse Inc.

Product Status:

Obsolete

Fuse Type:

Cartridge, Ceramic

Voltage Rating - AC:

250 V

Package / Case:

3AB, 3AG, 1/4" x 1-1/4" (Axial)

Melting I²t:

349

Operating Temperature:

-55°C ~ 125°C

Size / Dimension:

0.272" Dia x 1.280" L (6.90mm x 32.50mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8536.10.0040

Moisture Sensitivity Level (MSL):

Not Applicable

ECCN:

EAR99

Type GSA / GSAP

Slow Blow Fuse Series

HF **Pb** GSA/GSAP Series, 6x32mm Ceramic Tube Slow Blow Fuse

RoHS 2 Compliant

Description

6x32mm Slow Blow, ceramic tube body cartridge fuse designed, approved and complied with UL and CSA standard 248-14.

Features

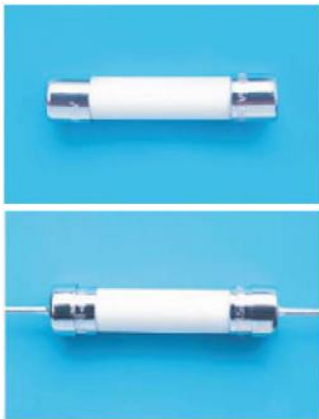
- Meet UL and CSA standard 248-14
- Wide operating temperature range
- Bulk packing available
- RoHS 2 compliant
- Halogen Free
- Lead Free

Applications

Provide individual protection for components or internal circuits.

- Power supplies
- Battery charger
- Monitor
- Adapter

LEAD FREE = **Pb**
 HALOGEN FREE = **HF**



Physical Specifications

Materials	Body : Ceramic
	Cap : Nickel Plated Brass Caps
	Leads : Matte Tin Plated Copper
Marking	On Fuse :
	"bel", "GSA", "Current Rating", "Voltage Rating", "Appropriate Safety Logos", "✓" (RoHS 2 compliant)
	On Label :
	"bel", "GSA" or "GSAP", "Current Rating", "Voltage Rating", "Interrupting Rating", "Appropriate Safety Logos" and "✓", "RoHS", "E" (China RoHS compliant).

Electrical Characteristics (UL/CSA STD.248-14)

Testing Current	Blow Time	
	Minimum	Maximum
100%	4 hrs.	N/A
135%	N/A	1 Hr.
200%	5 sec	30 sec

Safety Agency Approvals

Safety Agency	Safety Agency Certificate	Voltage Rating (V)	Ampere Range / Volt @ I.R. ability*
UL US SP	E20624 LR39772	500mA-15A/ 250V AC	500mA-8A/125V AC@10,000A 500mA-1A/250V AC@35A >1A-3.5A/250V AC@100A >3.5A-8A/250V AC@200A
RU US SP			10A-15A/125V AC@10,000A 10A-15A/250V AC@750A
PS E	JET1037-31003-1010 JET1037-31003-1011		1A-5A/125V AC@500A
	JET1037-31003-1007		>5A-15A/125V AC@300A






*I.R.= Interrupting Rating = Short Circuit Rating(Amps)

Type GSA / GSAP

Environmental Specifications

Shock Resistance	MIL-STD-202G, Method 213B, Test Condition 1 (100 G's peak for 6 milliseconds; Sawtooth waveform)
Vibration Resistance	MIL-STD-202G, Method 201A (10-55 Hz, 0.06 inch, total excursion).
Salt Spray Resistance	MIL-STD-202G, Method 101E, Test Condition B (48 hrs.).
Insulation Resistance	MIL-STD-202G, Method 302, Test Condition A (After Opening) 10,000 ohms minimum.
Solderability	MIL-STD-202G, Method 208H
Resistance to solder Heat	MIL-STD-202G, Method 210F, Test Condition B. (260+/-5°C, 10+/-1 sec)
Thermal Shock	MIL-STD-202G, Method 107G, Test Condition B (-65°C to +125°C).
Operating Temperature	-55°C to +125°C
Terminal Strength	IEC-68-2-21

Electrical Specifications

Catalog Number	Ampere Rating	Typical Cold Resistance (ohms)	Volt-drop @100%In (Volt) max.	Voltage and Interrupting Ratings	Melting I²T <10 mSec (A² Sec)	Melting I²T @10 In (A² Sec)	Maximum Power Dissipation (W)	Agency Approvals					
													
GSA(P) 500-R	500mA	1.38	1.07	See Table of Safety Approvals on Page 1 for Voltage and associated Interrupting Ratings	4.4	5.4	0.78	Y	Y				
GSA(P) 600-R	600mA	1.05	0.98		6.9	8.5	0.82	Y	Y				
GSA(P) 700-R	700mA	0.648	0.69		8.5	11	0.84	Y	Y				
GSA(P) 750-R	750mA	0.642	0.68		10	12	0.85	Y	Y				
GSA(P) 1-R	1A	0.374	0.59		16	21	0.91	Y	Y				Y
GSA(P) 1.25-R	1.25A	0.248	0.43		25	32	0.96	Y	Y				Y
GSA(P) 1.6-R	1.6A	0.155	0.38		39	50	1.01	Y	Y				Y
GSA(P) 2-R	2A	0.115	0.36		61	79	1.06	Y	Y				Y
GSA(P) 2.5-R	2.5A	0.079	0.29		94	123	1.12	Y	Y				Y
GSA(P) 3-R	3A	0.058	0.27		146	192	1.18	Y	Y				Y
GSA(P) 4-R	4A	0.039	0.23		226	300	1.24	Y	Y				Y
GSA(P) 5-R	5A	0.029	0.22		349	469	1.31	Y	Y				Y
GSA(P) 6-R	6A	0.018	0.19		286	455	1.61	Y	Y				Y
GSA(P) 7-R	7A	0.016	0.18		372	592	1.81	Y	Y				Y
GSA(P) 8-R	8A	0.013	0.17		483	769	1.95	Y	Y				Y
GSA(P) 10-R	10A	0.010	0.17		817	1300	2.26			Y	Y	Y	
GSA(P) 12-R	12A	0.008	0.15		1277	2031	2.56			Y	Y	Y	
GSA(P) 15-R	15A	0.006	0.15	2123	3377	2.96			Y	Y	Y		

Consult manufacturer for other ratings

GSAP EOL–
Last Buy Date is Aug 31, 2021



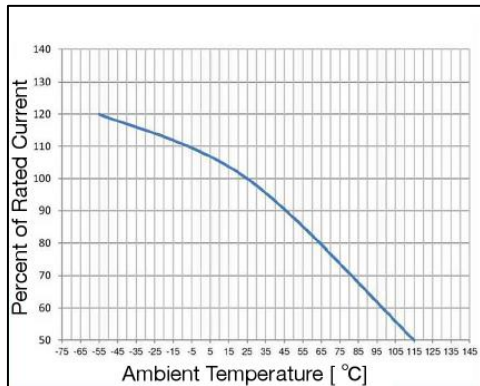
Specifications subject to change without notice

Bel Fuse Inc.
206 Van Vorst Street
Jersey City, NJ 07302 USA

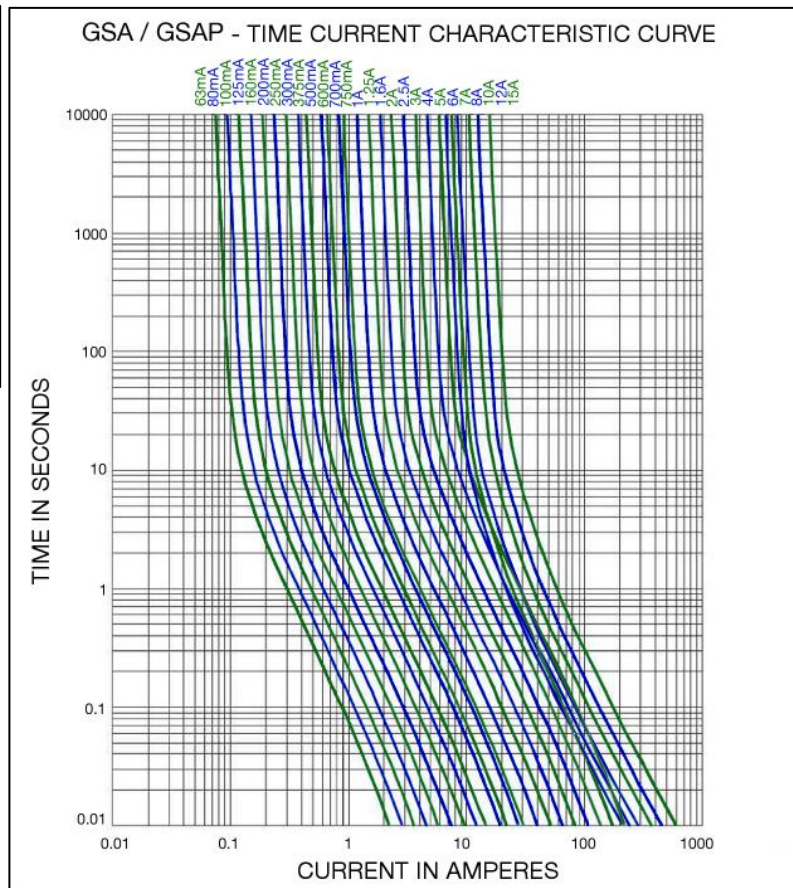
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Type GSA / GSAP

Temperature Derating Curve

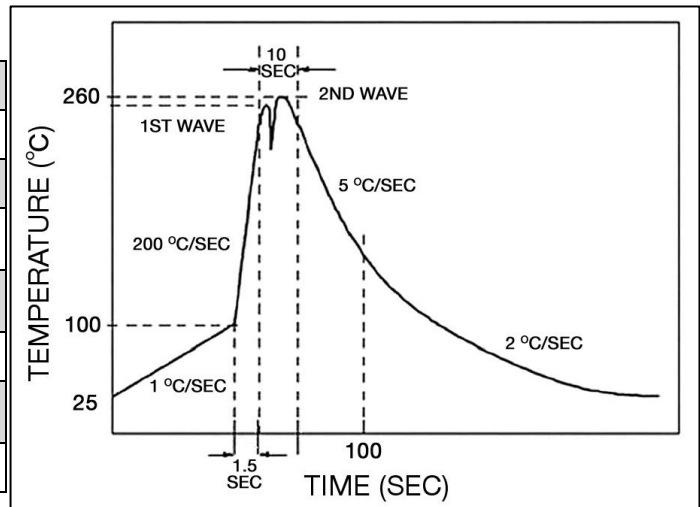


Average Time Current Curve



Soldering parameters

Lead-free Wave Soldering Profile	
Wave Soldering Parameter	
Average ramp-up rate	200°C / second
Heating rate during preheat	typical 1 - 2°C / second Max 4°C / second
Final preheat temperature	within 125°C of soldering temperature
Peak temperature Tp	260°C
Time within +0°C / -5°C of actual peak temperature	10 seconds
Ramp-down rate	5°C / second max.



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+1 201.432.0463
Bel.US.CS@belf.com
belfuse.com/circuit-protection

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