

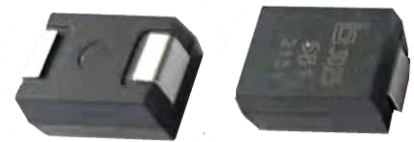
CMS(3025-4032)-B Series
Descriptions 产品描述

The CMS(3025-4032)-B Series are manufactured with encapsulated cylindrical varistor elements as small SMD packages. The products are designed to suppress a variety of transient events, including those specified in IEC61000-4-2, IEC61000-4-5 and other standards used for Electromagnetic Compliance (EMC).

These devices feature high energy absorption capabilities (3025 equaled to 7D MOV, 4032 equaled to 10D MOV), high working temperature (125°C) and also fast response thus low clamping voltages. These characteristics make the devices the best replacement of DIP-MOV in many applications, especially with space limits and SMT installation requirements.

Features 产品特征

- Cylindrical varistor elements, encapsulated
- High energy absorption capability
- UL94V-0 flammability rating
- Low leakage current <20μA
- Application in surge protection of AC supply systems
- SMD type Body size 3025, 4032
- Suitable for lead-free soldering
- RoHS compliant
- TUV: B002653 0001 Rev.01
- CQC: CQC21001318502


Appearance
Order Information 包装信息

Device Size	Quantity	Reel Size
3025	1500 pcs	15 Inch (380x16.4mm)
4032	1500 pcs	15 Inch (380x24.4mm)

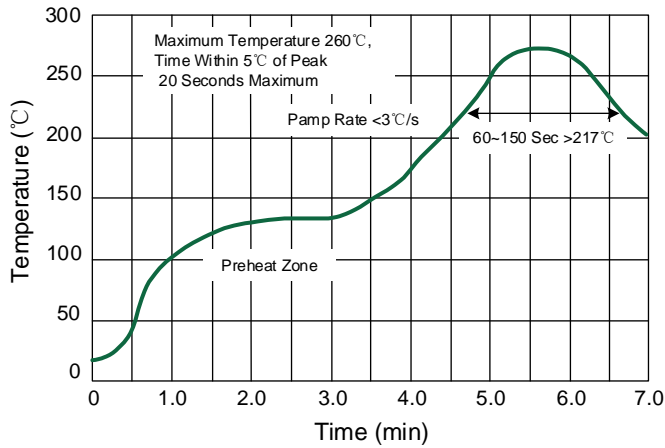
General Technical Data 技术参数

Parameter	Value
Maximum RMS operating voltage	150...420 V
Maximum DC operating voltage	200...560 V
Maximum surge current (8/20μs)	1200...2000 A
Maximum leakage current at V _{DC}	20 μA
Operating temperature range	-40°C to +125 °C
Storage temperature	-40°C to +125 °C

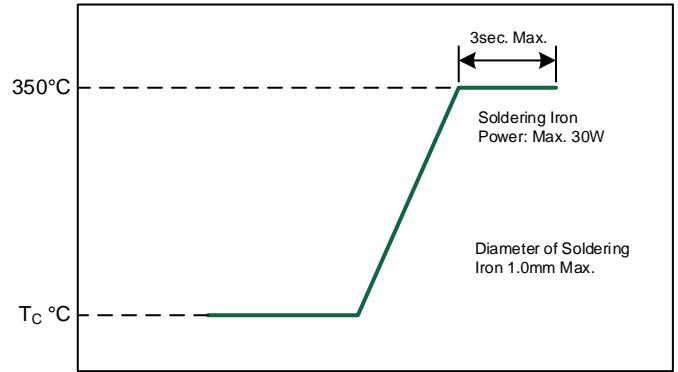
Device Ratings and Specifications 额定值和规格

型号 Part Number	最大持续电压 Maximum Continuous Voltage (V)		压敏电压 Nominal Varistor Voltage @1mA (V)	最大钳位电压 Clamping Voltage (Max. V)	最大钳位电流 Class Current (Max. A)	最大峰值电流 Maximum Peak Current 8/20 μ s (A)		能量 Energy (J) (2ms)	额定功率 Rated Power (mW)	TUV	CQC
	AC	DC	V _N	V _C	8/20 μ s I _C	1 Time	2 Times	1 Time			
CMS3025V241P501-B	150	200	240[216-264]	395	10	1200	1000	7.5	200	●	●
CMS4032V241P102-B	150	200	240[216-264]	395	25	2000	1500	16.2	320	●	●
CMS3025V271P501-B	175	225	270[243-297]	455	10	1200	1000	8.0	200	●	●
CMS4032V271P102-B	175	225	270[243-297]	455	25	2000	1500	18.5	320	●	●
CMS3025V331P501-B	210	270	330[297-336]	545	10	1200	1000	9.5	200		●
CMS4032V331P102-B	210	270	330[297-336]	545	25	2000	1500	22.3	320		●
CMS3025V361P501-B	230	300	360[324-396]	595	10	1200	1000	11.0	200		●
CMS4032V361P102-B	230	300	360[324-396]	595	25	2000	1500	24.5	320		●
CMS3025V391P501-B	250	320	390[351-429]	650	10	1200	1000	12.0	200	●	●
CMS4032V391P102-B	250	320	390[351-429]	650	25	2000	1500	26.5	320	●	●
CMS3025V431P501-B	275	350	430[387-473]	710	10	1200	1000	13.5	200	●	●
CMS4032V431P102-B	275	350	430[387-473]	710	25	2000	1500	29.0	320	●	●
CMS3025V471P501-B	300	385	470[423-517]	775	10	1200	1000	15.0	200	●	●
CMS4032V471P102-B	300	385	470[423-517]	775	25	2000	1500	30.0	320	●	●
CMS3025V511P401-B	320	418	510[459-561]	842	10	1200	1000	16.0	200	●	●
CMS4032V511P801-B	320	418	510[459-561]	842	25	2000	1500	32.0	320	●	●
CMS3025V561P401-B	350	460	560[504-616]	920	10	1200	1000	16.5	200	●	●
CMS4032V561P801-B	350	460	560[504-616]	920	25	2000	1500	32.0	320	●	●
CMS3025V621P401-B	385	505	620[558-682]	1025	10	1200	1000	17.0	200	●	●
CMS4032V621P801-B	385	505	620[558-682]	1025	25	2000	1500	32.0	320	●	●
CMS3025V681P401-B	420	560	680[612-748]	1120	10	1200	1000	18.0	200	●	●
CMS4032V681P801-B	420	560	680[612-748]	1120	25	2000	1500	32.0	320	●	●

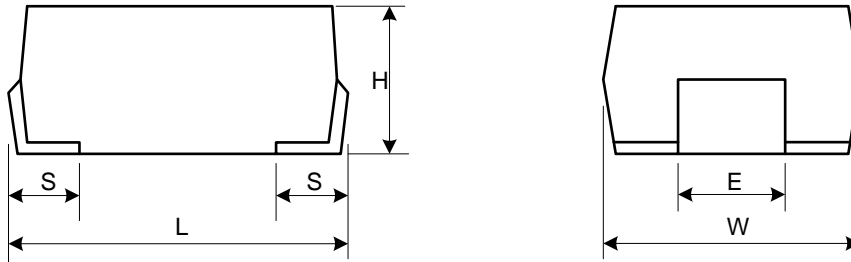
Lead-free Re-flow Solder Profile



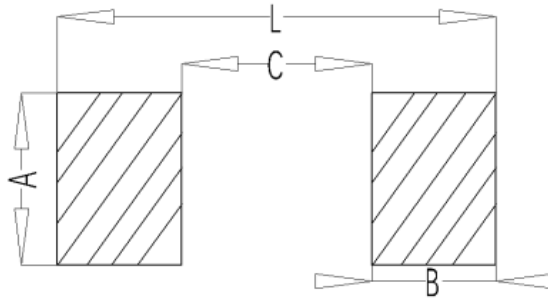
Iron Soldering Profile



Product Dimensions 产品尺寸



Dimensions	3025		4032	
	Inch	Millimeter	Inch	Millimeter
L	0.307~0.339	7.80~8.60	0.421~0.445	10.70~11.30
W	0.236~0.260	6.00~6.60	0.315~0.331	8.00~8.40
H	0.149~0.181	3.80~4.60	0.177~0.201	4.50~5.10
S	0.047~0.071	1.20~1.80	0.047~0.071	1.20~1.80
E	0.106~0.130	2.70~3.30	0.106~0.130	2.70~3.30

Recommended Pad Dimensions 建议焊盘尺寸


Dimensions(mm)	A	B	C	L
3025	3.5	2.8	4.5	10.1
4032	3.5	2.8	6.5	12.1

Storage 存储条件

- Storage temperature range (packaging conditions): $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$ RH 70% (Max.).
存储温度范围 (包装情况下) $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$ RH 70% (最高.)。
- The solderability of the external electrode may be deteriorated if packages are stored where they are exposed to high humidity. Package must be stored at 40°C or less and 70% RH or less.
如果将包装存放在暴露的高湿度地方, 则外部电极的可焊性可能会变差。包装必须储存在 40°C 或更低, RH为70%或更低。
- The solderability of the external electrode may be deteriorated if packages are stored where they are exposed to dust of harmful gas (e.g. HCl, sulfurous gas of H_2S).
如果将包装存放在暴露的有害气体 (例如HCl, H_2S 的含硫气体) 以及粉尘地方, 则外部电极的可焊性可能会变差。
- Packaging material may be deformed if package are stored where they are exposed to heat of direct sunlight.
如果包装材料存放在暴露的阳光直射高温下, 包装材料可能会变形。
- Solderability shall be guaranteed for 12 months from the date of delivery on condition that they are stored at the environment specified in Clause 2. For those parts, which passed more than 12 months shall be checked solder-ability before use.
自交货之日起, 可焊性应保证12个月, 前提是储存在第2条规定的环境中。对于超过12个月的产品, 应在使用前检查可焊性。

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Specifications are subject to change without notice.

Website: www.boarden.com.cn

Tel: 86-21-61401058

Fax: 86-21-61730538