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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CAK6-042C series devices are bi-directional glass passivated junction Transient Voltage Suppressors designed to protect voltage sensitive components from high voltage transients.

THIS DEVICE IS MANUFACTURED WITH A GLASS PASSIVATED CHIP FOR OPTIMUM RELIABILITY.

MARKING CODE: FULL PART NUMBER

FEATURES:

- · Very low clamping voltage
- Bi-directional
- ESD protection of data lines in accordance with IEC 61000-4-2

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Pulse Current (IEC 61000-4-5) (8x20µs)	IPP	6	kA
ESD Voltage (IEC 61000-4-2, Air)	V _{ESD}	15	kV
ESD Voltage (IEC 61000-4-2, Contact)	V _{ESD}	8	kV
Operating Junction Temperature	ТJ	-55 to +125	°C
Storage Temperature	T _{stg}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS: (TA=25°C unless otherwise noted)

Туре	Maximum Reverse Stand-off Voltage		Minimum Breakdown Voltage	Test Current	Maximum Reverse Leakage Current	Maximum Clamping Voltage (8x20μs)
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	V _{RMS}	V _{RWM}	V _{BR} @ I _T	ΙT	I _R @ V _{RWM}	V _C @ 3kA
	V	V	V	mA	μA	V
CAK6-042C	30	42	47	10	20	100
CAK6-066C	45	66	70	10	20	125
CAK6-076C	54	76	83	10	20	135
CAK6-170C	130	170	180	10	20	260
CAK6-190C	145	190	200	10	20	290
CAK6-240C	180	240	250	10	20	340

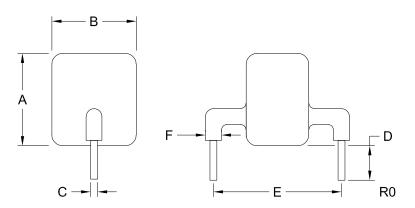
R3 (17-August 2021)





SILICON BI-DIRECTIONAL GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSORS 6kA, 42 THRU 240 VOLT

AK CASE - MECHANICAL OUTLINE

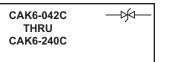


DIMENSIONS							
	INCHES		MILLIM	ETERS			
SYMBOL	MIN	MAX	MIN	MAX			
A	-	0.685	-	17.40			
В	-	0.626	-	15.90			
C (DIA)	0.047	0.055	1.20	1.40			
D	0.256	0.295	6.50	7.50			
E	0.923	0.978	23.45	24.85			
F (DIA)	-	0.157	-	4.00			

AK (REV: R0)

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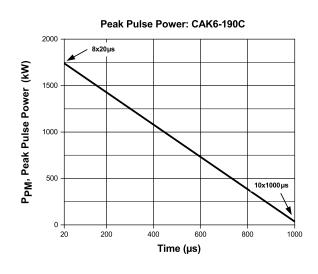
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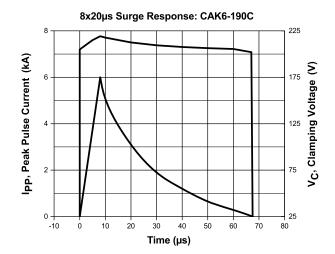




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TYPICAL ELECTRICAL CHARACTERISTICS





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OUTSTANDING SUPPORT AND SUPERIOR SERVICES

PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- · Environmental regulation compliance
- Customer specific screening
- · Up-screening capabilities

· Custom product packing

Custom bar coding for shipments

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- · Custom product and package development

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

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