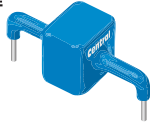


CAK6-042C  
THRU  
CAK6-240C



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

Specified by  
STAND-OFF VOLTAGE



AK CASE



www.centrasemi.com

#### 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: ( $T_A=25^\circ\text{C}$ )

Peak Pulse Current (IEC 61000-4-5) (8x20 $\mu\text{s}$ )

ESD Voltage (IEC 61000-4-2, Air)

ESD Voltage (IEC 61000-4-2, Contact)

Operating Junction Temperature

Storage Temperature

#### SYMBOL

$I_{PP}$	6
$V_{ESD}$	15
$V_{ESD}$	8
$T_J$	-55 to +125
$T_{stg}$	-55 to +150


#### UNITS

kA  
kV  
kV  
 $^\circ\text{C}$   
 $^\circ\text{C}$

#### ELECTRICAL CHARACTERISTICS: ( $T_A=25^\circ\text{C}$ unless otherwise noted)

Type	Maximum Reverse Stand-off Voltage		Minimum Breakdown Voltage	Test Current	Maximum Reverse Leakage Current	Maximum Clamping Voltage (8x20 $\mu\text{s}$ )
	$V_{RMS}$	$V_{RWM}$	$V_{BR} @ I_T$	$I_T$	$I_R @ V_{RWM}$	$V_C @ 3kA$
	V	V	V	mA	$\mu\text{A}$	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

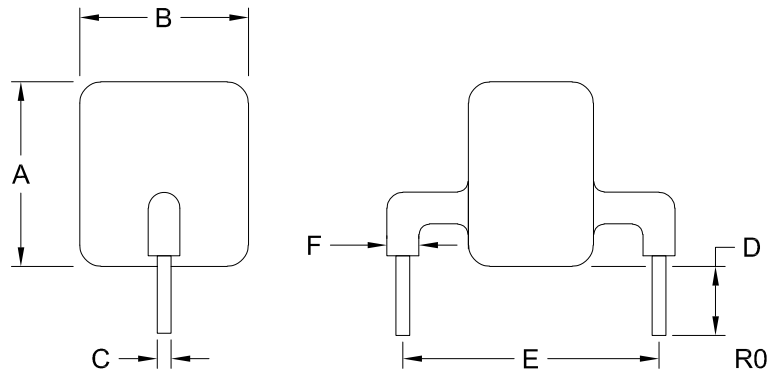
CAK6-042C  
THRU  
CAK6-240C



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



AK CASE - MECHANICAL OUTLINE



DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	-	0.685	-	17.40
B	-	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)

R2 (30-June 2021)

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[P6KE8.2A](#) [SA110CA](#) [SA60CA](#) [SA64CA](#) [SMBJ12CATR](#) [SMBJ8.0A](#) [SMLJ30CA-TP](#) [ESD101-B1-02ELS E6327](#) [ESD112-B1-02EL E6327](#)  
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