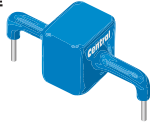


CAK3-012C
THRU
CAK3-380C



SILICON BI-DIRECTIONAL
GLASS PASSIVATED JUNCTION
TRANSIENT VOLTAGE SUPPRESSORS
3kA, 12 THRU 380 VOLT

Specified by
STAND-OFF VOLTAGE



AK CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CAK3-012C 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 μs)

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

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

Operating Junction Temperature

Storage Temperature

SYMBOL

I_{PP}

V_{ESD}

V_{ESD}

T_J

T_{stg}

3

15

8

-55 to +125

-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 μs)
	V_{AC}	V_{DC}	$V_{BR} @ I_T$	I_T	$I_R @ V_{DC}$	$V_R @ 3kA$
	V	V	V	mA	μA	V
CAK3-012C	8.5	12.8	14	10	20	28
CAK3-015C	11	15	17	10	20	30
CAK3-020C	14	20	22	10	20	40
CAK3-025C	17	25	28	10	20	50
CAK3-030C	21	30	33	10	20	90
CAK3-042C	30	42	47	10	20	100
CAK3-058C	40	58	64	10	20	110
CAK3-076C	54	76	85	10	20	140
CAK3-380C	275	380	401	10	20	520

R1 (4-March 2021)

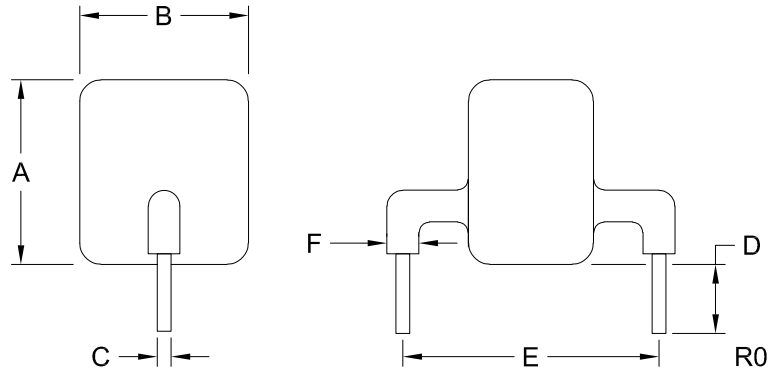
CAK3-012C
THRU
CAK3-380C



SILICON BI-DIRECTIONAL
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3kA, 12 THRU 380 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)

R1 (4-March 2021)