



E480232

## Features

- Axial Lead Terminals
- High Current Transient Suppressor
- Excellent Clamping Capability
- Glass Passivated Junction
- Bi-directional
- Low Slope Resistance
- Repetition Rate(duty cycle):0.01%
- High Temperature Soldering:260°C/10 Seconds at Terminals
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant<sup>(Note 1)</sup> ("P" Suffix Designates Compliant. See Ordering Information)

## Maximum Ratings

Parameter	Symbol	Value		Unit
Operating Junction Temperature Range	T <sub>J</sub>	-55 to +150		°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150		°C
Current Rating, Rated IPP Measured With 8/20us Pulse	IPP	AK15	15	KA

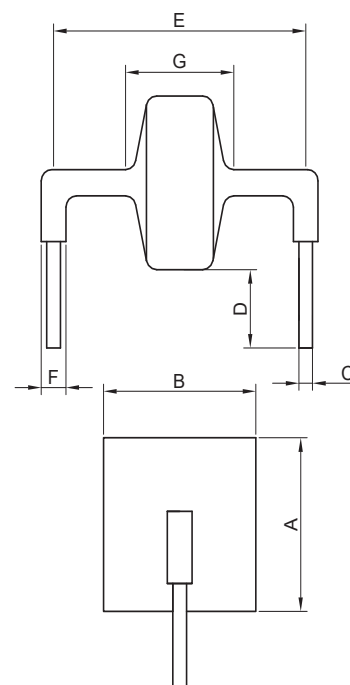
1.High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

## Internal Structure and Marking Code

Description	Graphic symbol
Bi-directional	

## AK Series TVS Diodes

### AK15



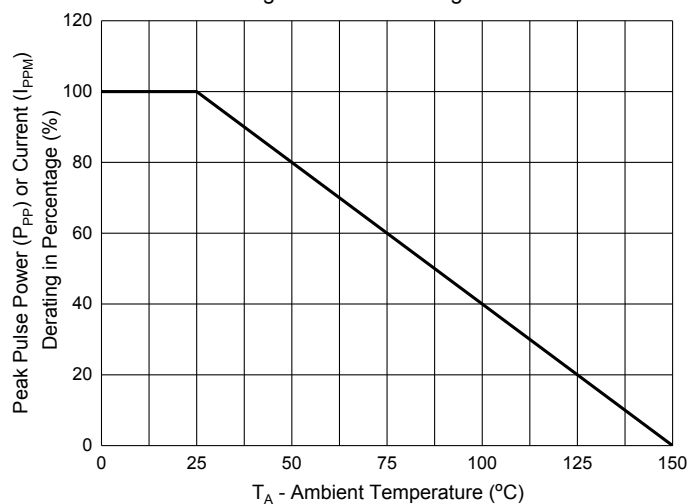
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	--	0.709	--	18.00	
B	--	0.630	--	16.00	
C	0.047	0.052	1.20	1.32	
D	0.256	0.296	6.50	7.50	
E	0.922	0.979	23.43	24.87	
F	0.070	0.158	1.80	4.00	
G	0.173	0.292	4.40	7.40	-058C
	0.206	0.325	5.25	8.25	-076C

**Electrical Characteristics @ 25°C Unless Otherwise Specified**

Part Number	Reverse Stand- Off Voltage		Breakdown Voltage		Test Current	Surge Current Rating	Maximum Clamping Voltage	Reverse Leakage	Marking
	VAC(V)	VDC(V)	VBR(V) MIN.@IT	VBR(V) MAX.@IT	IT(mA)	8/20us (KA)	VC(V) @IPP	IR(μA) @VDC	
AK15-058C	40	58	64	70	10	15	110	20	AK15058C
AK15-076C	54	76	85	95	10	15	145	20	AK15076C

**Curve Characteristics**

Fig. 1 - Pulse Derating Curve



## Ordering Information

Device	Packing
AK15 Series	Bulk:80 pcs/Box,960 pcs/Carton

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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