



Micro Commercial Components



Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

AK1-076C
THRU
AK15-076C

Features

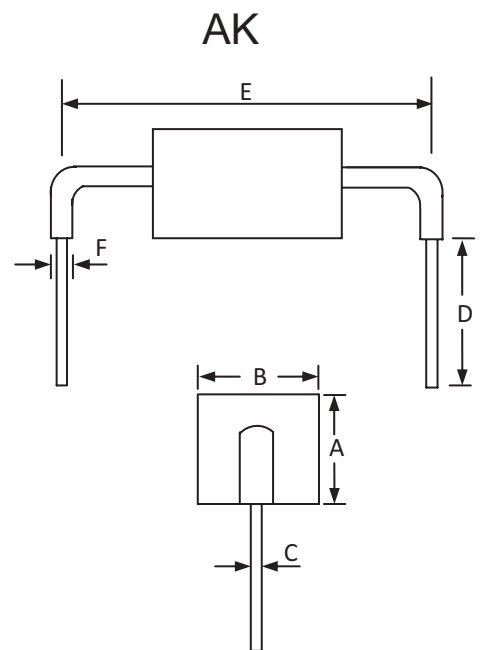
- Axial Lead Terminals
High Current Transient Suppressor
Excellent Clamping Capability
Glass Passivated Junction
Bi-directional
Low Slope Resistance
Repetition Rate(duty cycle):0.01%
Halogen Free
High Temperature Soldering:260°C/10 Seconds at Terminals
Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
Epoxy meets UL 94 V-0 flammability rating
Moisture Sensitivity Level 1
UL Approved, UL File#: E480232

AK Series
TVS Diodes
58-430 Volts

Maximum Ratings And Thermal Characteristics

Table with 4 columns: Parameter, Symbol, Value, Unit. Rows include Current Rating (Ipp) for models AK1-15 and Operating/Storage Temperature Range (Tj, Tstg).

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



DIMENSIONS table with columns: DIM, INCHES (MIN, MAX), MM (MIN, MAX), NOTE. Rows A-F correspond to dimensions in the diagram.

**Electrical Characteristics( $T_A=25^{\circ}\text{C}$  unless otherwise noted)**

Part Number	Reverse Stand-Off Voltage		Breakdown Voltage	Test Current	Surge Current Rating	Maximum Clamping Voltage	Reverse Leakage
	VAC(V)	VDC(V)	VBR(V) MIN.@IT	IT(mA)	8/20us (KA)	VC(V) @IPP	IR( $\mu\text{A}$ ) @VDC
AK1-076C	54	76	83	10	1	135	20
AK3-058C	40	58	64	10	3	110	20
AK3-066C	45	66	70	10	3	125	20
AK3-076C	54	76	85	10	3	140	20
AK3-380C	275	380	401	10	3	520	20
AK3-430C	310	430	440	10	3	625	20
AK6-058C	40	58	64	10	6	110	20
AK6-066C	45	66	70	10	6	125	20
AK6-076C	54	76	83	10	6	135	20
AK6-170C	130	170	180	10	6	260	20
AK6-190C	145	190	200	10	6	290	20
AK6-240C	180	240	250	10	6	340	20
AK6-380C	275	380	401	10	6	520	20
AK6-430C	310	430	440	10	6	625	20
AK10-058C	40	58	64	10	10	110	20
AK10-066C	45	66	70	10	10	125	20
AK10-076C	54	76	83	10	10	135	20
AK10-170C	130	170	180	10	10	260	20
AK10-190C	145	190	200	10	10	290	20
AK10-200C	150	200	222	10	10	330	20
AK10-240C	180	240	250	10	10	340	20
AK10-380C	275	380	401	10	10	520	20
AK10-430C	310	430	440	10	10	625	20
AK15-058C	40	58	64	10	15	110	20
AK15-076C	54	76	85	10	15	145	20

**Ratings and Characteristics Curves ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)**

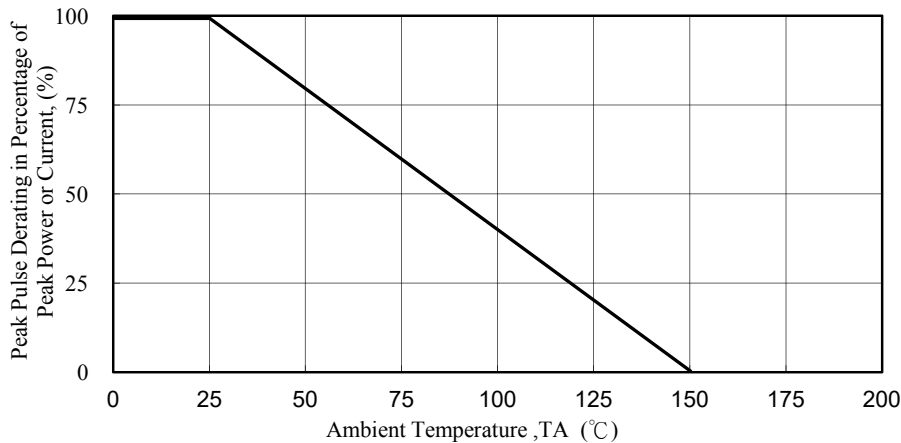


Fig. 1 - Pulse Derating Curve

# Typical Peak Pulse Power Rating Curve

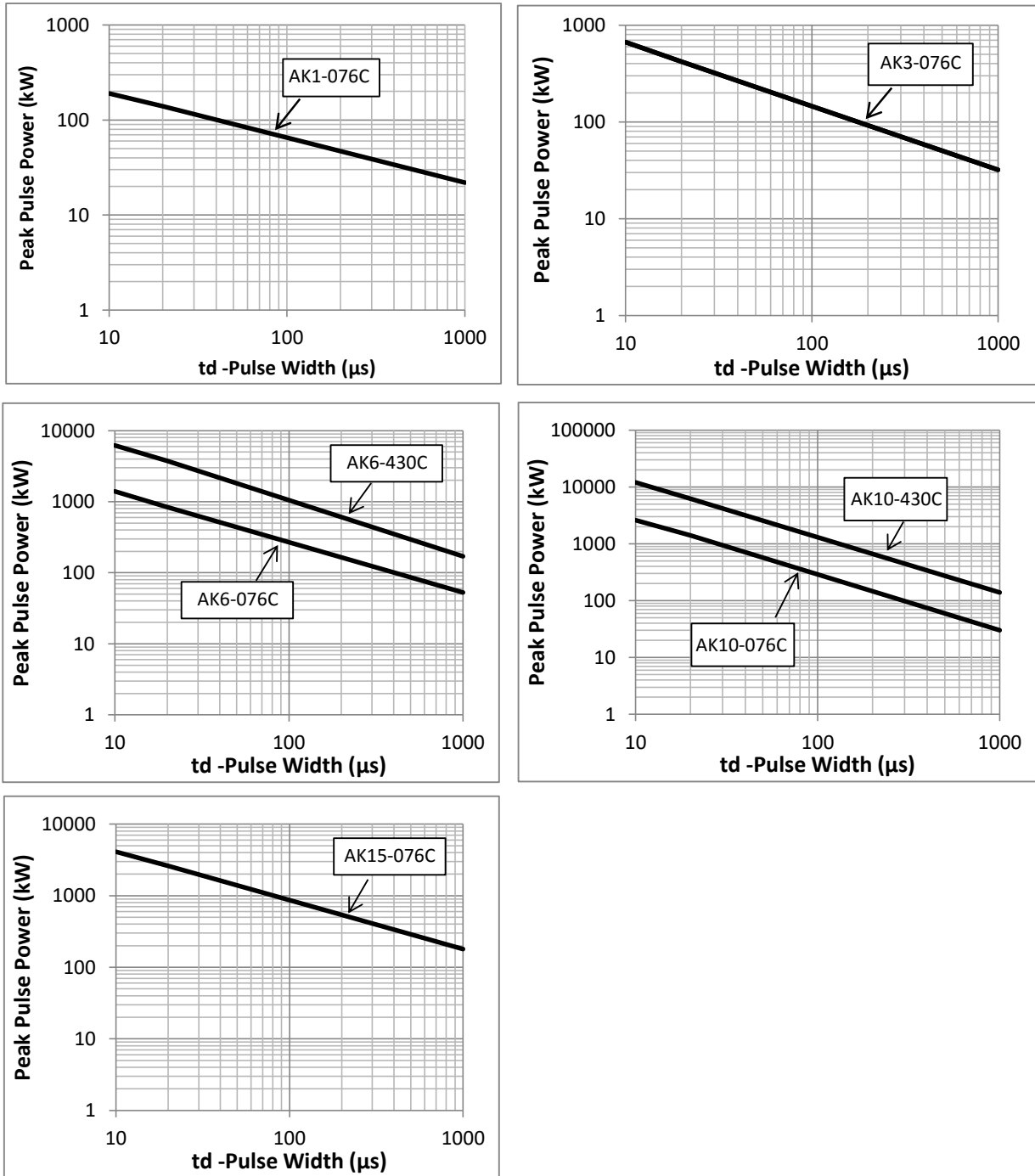


Fig.2 Peak Pulse Power Rating Curve



Micro Commercial Components

## Ordering Information

Device	Packing
(Part Number)-BP	Bulk: 150pcs/Box

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

### \*\*\*IMPORTANT NOTICE\*\*\*

**Micro Commercial Components Corp.** reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp.** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp.** and all the companies whose products are represented on our website, harmless against all damages.

### \*\*\*LIFE SUPPORT\*\*\*

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

### \*\*\*CUSTOMER AWARENESS\*\*\*

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Micro Commercial Components \(MCC\):](#)

[AK3-066C-BP](#) [AK3-058C-BP](#) [AK3-076C-BP](#) [AK3-380C-BP](#) [AK3-430C-BP](#)