

# LITTELFUSE TVS Diodes and LED Protection



RoHS Compliant This product is RoHS compliant.

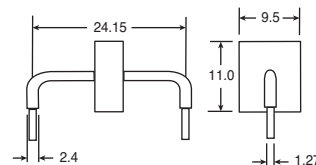
Littelfuse Transient Protection

## LITTELFUSE AK3 SERIES

**NEW** PRODUCT

MOUSER STOCK NO.	Littelfuse Part No.	Standoff Voltage (V <sub>SO</sub> ) Volts	Max. Reverse Leakage (I <sub>P</sub> ) @ V <sub>SO</sub> μA	Reverse Breakdown Voltage (V <sub>BR</sub> ) @ I <sub>T</sub>		Test Current I <sub>T</sub> (mA)	Max. Clamping Voltage V <sub>CL</sub> @ I <sub>PP</sub> Peak Pulse Current (I <sub>PP</sub> ) (Note 1)		Max. Temp Coefficient OF V <sub>BR</sub> (%/°C)	Max. Capacitance 0 Bias 10kHz (nF)	Price Each			
				Min. Volts	Max. Volts		V <sub>CL</sub> Volts	I <sub>PP</sub> Amps			1	10	100	250
576-AK3-030C	AK3 - 030C	30	20	32	37	10	90	3000	0.1	11	14.00	12.72	10.93	10.14
576-AK3-058C	AK3 - 058C	58	20	64	70	10	110	3000	0.1	6	20.00	18.18	15.62	14.49
576-AK3-066C	AK3 - 066C	66	20	72	80	10	120	3000	0.1	6	22.00	20.00	17.18	15.94
576-AK3-076C	AK3 - 076C	76	20	85	95	10	140	3000	0.1	6	22.00	20.00	17.18	15.94
576-AK3-380C	AK3 - 380C	380	20	401	443	10	520	3000	0.1	2	66.00	60.00	51.56	47.82
576-AK3-430C	AK3 - 430C	430	20	440	490	10	625	3000	0.1	2	70.00	63.63	54.68	50.72

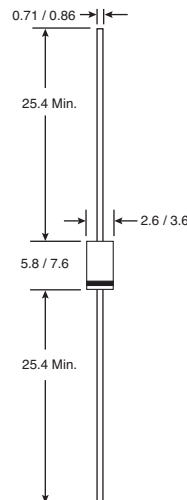
DIMENSIONS: mm



## LITTELFUSE SA SERIES

MOUSER STOCK NO.	Littelfuse Part No.	Reverse Standoff (VR)	Breakdown VBR (Volts) @ IT			Max. Reverse Leakage IR @ VR	Max. Clamping Voltage VC @ IPP	Max. Peak Pulse Current	Max. Voltage Temp.	Price Each			
			Min.	Max.	(mA)					1	10	100	250
576-SA6.0C	SA6.0C	6	6.67	8.15	10	600	11.4	43.9	5	.41	.37	.317	.284
576-SA8.0C	SA8.0C	8	8.89	10.9	1	25	15	33.3	7	.41	.37	.317	.284
576-SA8.5C	SA8.5C	8.5	9.44	11.5	1	10	15.9	31.4	8	.41	.37	.317	.284
576-SA9.0C	SA9.0C	9	10	12.2	1	5	16.9	29.5	9	.41	.37	.317	.284
576-SA12C	SA12C	12	13.3	16.3	1	3	22	22.7	12	.41	.37	.317	.284
576-SA14C	SA14C	14	15.6	19.1	1	3	25.8	19.4	14	.41	.37	.317	.284
576-SA15C	SA15C	15	16.7	20.4	1	3	26.9	18.8	16	.41	.37	.317	.284
576-SA16C	SA16C	16	17.8	21.8	1	3	28.8	17.6	19	.41	.37	.317	.284
576-SA22C	SA22C	22	24.4	29.8	1	3	39.4	12.7	28	.41	.37	.317	.284
576-SA24C	SA24C	24	26.7	32.6	1	3	43	11.6	31	.41	.37	.317	.284
576-SA28	SA28	28	31.1	38	1	3	50	9.9	35	.37	.336	.288	.258
576-SA30C	SA30C	30	33.3	40.7	1	3	53.5	9.3	39	.41	.37	.317	.284
576-SA40C	SA40C	40	44.4	54.3	1	3	71.4	7	51	.41	.37	.317	.284
576-SA43C	SA43C	43	47.8	58.4	1	3	76.7	6.5	55	.41	.37	.317	.284
576-SA48C	SA48C	48	53.3	65.1	1	3	85.5	5.8	63	.41	.37	.317	.284
576-SA54	SA54	54	60	73.3	1	3	96.3	5.2	71	.37	.336	.288	.258
576-SA58C	SA58C	58	64.4	78.7	1	3	103	4.9	78	.41	.37	.317	.284
576-SA75C	SA75C	75	83	102	1	3	134	3.7	101	.41	.37	.317	.284
576-SA78C	SA78C	78	86	106	1	3	139	3.6	105	.41	.37	.317	.284
576-SA110C	SA110C	110	122	149	1	3	196	2.6	148	.41	.37	.317	.284
576-SA120C	SA120C	120	133	163	1	3	214	2.3	162	.41	.37	.317	.284
576-SA170C	SA170C	170	189	231	1	3	304	1.6	230	.41	.37	.317	.284

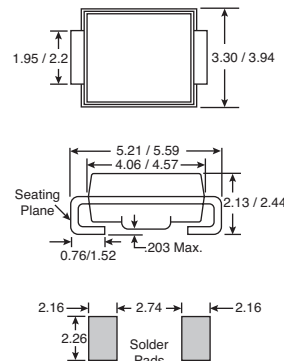
DIMENSIONS: mm



## LITTELFUSE SMBJ SERIES

MOUSER STOCK NO.	Littelfuse Part No.	Type	Device Code	Reverse Standoff (VR)	Breakdown VBR (Volts) @ IT		Max. Reverse Leakage IR @ VR	Max. Clamping Voltage VC @ IPP	Max. Peak Pulse Current	Price Each			
					Min.	(mA)				1	25	100	250
576-SMBJ10A	SMBJ10A	Uni-Polar	KX	10	11.1	1	5	17	35.3	.41	.37	.31	.275
576-SMBJ15	SMBJ15	Uni-Polar	LL	15	16.7	1	5	26.9	22.3	.37	.348	.293	.261
576-SMBJ13C	SMBJ13C	Bi-Polar	BF	13	14.4	1	5	23.8	25.2	.43	.40	.33	.29
576-SMBJ24C	SMBJ24C	Bi-Polar	BY	24	26.7	1	5	43	14	.43	.40	.33	.29
576-SMBJ26C	SMBJ26C	Bi-Polar	CD	26	28.9	1	5	46.6	12.4	.43	.40	.33	.29
576-SMBJ28C	SMBJ28C	Bi-Polar	CF	28	31.1	1	5	50	12	.43	.40	.33	.29
576-SMBJ48C	SMBJ48C	Bi-Polar	CW	48	53.3	1	5	85.5	7	.43	.40	.33	.29
576-SMBJ51C	SMBJ51C	Bi-Polar	CY	51	56.7	1	5	91.1	6.6	.43	.40	.33	.29
576-SMBJ58C	SMBJ58C	Bi-Polar	DF	58	64.4	1	5	103	5.8	.43	.40	.33	.29
576-SMBJ100A	SMBJ100A	Uni-Polar	NZ	100	111	1	5	162	3.7	.41	.37	.31	.275
576-SMBJ100CA	SMBJ100CA	Bi-Polar	DZ	100	111	1	5	162	3.7	.45	.40	.34	.30
576-SMBJ110C	SMBJ110C	Bi-Polar	ED	110	122	1	5	196	3	.43	.40	.33	.29

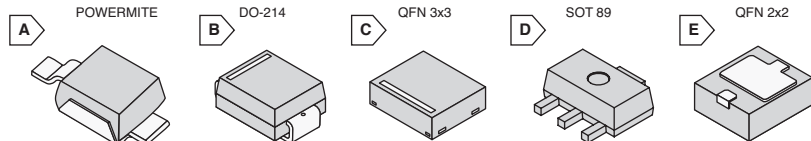
DIMENSIONS: mm



## LITTELFUSE PLED SERIES

- Features:**
- Fast Switching
  - Automatically resets after power cycle
  - Various voltage options to protect multiple LEDs in a string
  - Available in low profile, small footprint QFN and standard DO214AA packages
  - Compatible with PWM dimming speeds of up to 30KHz

- Specifications:**
- Reverse Battery/Power Protection
  - Open LED bypass from 500mA-1000mA
  - Ideal for MR16, PAR type lamps
  - Low on-state voltage



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Littelfuse Part No.	Fig.	VBR Breakdown Volts		I <sub>H</sub> mAmps (Min.)	I <sub>S</sub> mAmps (Max.)	I <sub>T</sub> @ V <sub>T</sub> Amps (Max.)	V <sub>T</sub> @ I <sub>T</sub> = Volts (Max.)	Critical rate of rise dV/dt Volts (Max.)	Price Each			
			Min.	Max.						1	10	100	500
576-PLED6M	PLED6M	A	5.5	7.5	12	70	1.2	1.2	250V/μs	.67	.49	.42	.308
576-PLED6S	PLED6S	B	6	16	5	100	1	1.2	250V/μs	.70	.58	.52	.42
576-PLED6Q12	PLED6Q12	C	6	16	5	100	1	1.2	250V/μs	.70	.58	.52	.42
576-PLED9S	PLED9S	B	9	18	5	100	1	1.2	250V/μs	.70	.58	.52	.42
576-PLED9Q12	PLED9Q12	C	9	18	5	100	1	1.2	250V/μs	.70	.58	.52	.42
576-PLED13S	PLED13S	B	13	26	5	100	1	1.2	250V/μs	.70	.58	.52	.42
576-PLED13Q12	PLED13Q12	C	13	26	5	100	1	1.2	250V/μs	.70	.58	.52	.42
576-PLED18S	PLED18S	B	18	33	5	100	1	1.2	250V/μs	.61	.51	.46	.36
576-PLED18Q12	PLED18Q12	C	18	33	5	100	1	1.2	250V/μs	.70	.58	.52	.42
576-PLED5HT	PLED5HT	D	4.6	5.2	n/a	20	0.7	1.8	150V/μs	.52	.44	.39	.30
576-PLED5Q12	PLED5Q12	E	4.6	5.2	n/a	20	0.5	1.3	150V/μs	.46	.38	.35	.27

