

AK15KA-L Series

Features

- Axial terminals
- High current & Excellent clamping capability.
- Glass passivated junction chip.
- Bi-directional or Uni-directional.
- Low slope resistance.
- Hazardous Substances Free Compliant.
- RoHS compliant.
- High Temperature wave soldering: 265°C/10 seconds at terminals.
- Epoxy Coating.

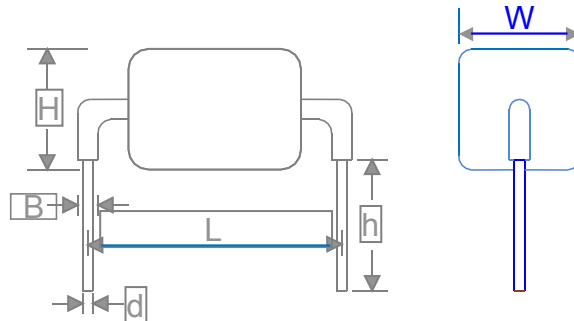


Maximum Ratings and Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Rating	Symbol	Value		Units
8/20µs Surge Current	I_{PP}	AK15-L	15	KA
Operating Junction Temperature Range.	T_J	-40 to +150		°C
Storage Temperature Range.	T_{STG}	-40 to +125		°C

Dimensions



Symbol	12CL~38CL		42CL~460CL	
	Inches	Inches	Inches	Millimeters
L	0.951±0.039	24.15±1.0	0.951±0.039	24.15±1.0
B	0.053min	1.35min	0.053min	1.35min
h	0.236±0.047	6.0±1.20	0.236±0.047	6.0±1.20
H	0.563max	14.3max	0.630max	16.0max
d	0.050±0.004	1.28±0.10	0.050±0.004	1.28±0.10
W	0.555max	14.1max	0.630max	16.0max

Electrical Characteristics

Part Number	Reverse Stand-Off Voltage		Breakdown Voltage		Test Current	Current Rating	Maximum Clamping Voltage	Reverse Leakage
	V _{AC} (V)	V _{DC} (V)	V _{BL} (V)	V _{BH} (V)	I _T (mA)	8/20μs pulse	V _C (V) @I _{PP}	I _R (μA) @V _{DC}
AK15-12CL	8.5	12	14.0	16.0	1	16000	28	5
AK15-15CL	11	15	17.0	19.0	1	16000	30	5
AK15-20CL	14	20	22.0	24.5	1	16000	40	5
AK15-25CL	17	25	28.0	31.0	1	16000	50	5
AK15-30CL	21	30	33.0	36.5	1	16000	60	5
AK15-33CL	23	33	35.0	39.0	1	16000	66	5
AK15-38CL	27	38	40.5	49.5	1	16000	69	5
AK15-42CL	30	42	47.0	52.0	1	16000	77	5
AK15-58CL	40	58	64.0	72.0	1	16000	110	5
AK15-66CL	45	66	70.0	77.5	1	16000	125	5
AK15-76CL	54	76	85.0	94.0	1	16000	140	5
AK15-100CL	72	100	110.0	121.5	1	16000	165	5
AK15-133CL	100	133	147.0	162.5	1	16000	220	5
AK15-150CL	105	150	165.0	182.5	1	16000	240	5
AK15-170CL	130	170	180.0	199.0	1	16000	260	5
AK15-190CL	145	190	200.0	221.0	1	16000	290	5
AK15-200CL	150	200	222.0	245.5	1	16000	330	5
AK15-240CL	180	240	250.0	276.5	1	16000	340	5
AK15-275CL	210	275	300.0	331.5	1	16000	435	5
AK15-300CL	230	300	330.0	365.0	1	16000	470	5
AK15-380CL	275	380	401.0	443.5	1	16000	520	5
AK15-430CL	310	430	440.0	486.5	1	16000	625	5
AK15-460CL	330	460	500.0	552.5	1	16000	770	5

Notes: 1. TA=25°C unless otherwise specified

2. Applying 8/20μs wave form pulse as defined in IEC61000-4-5

Ratings and Characteristic Curves (Ta=25°C unless otherwise noted)

Figure 1. Power Derating Curve

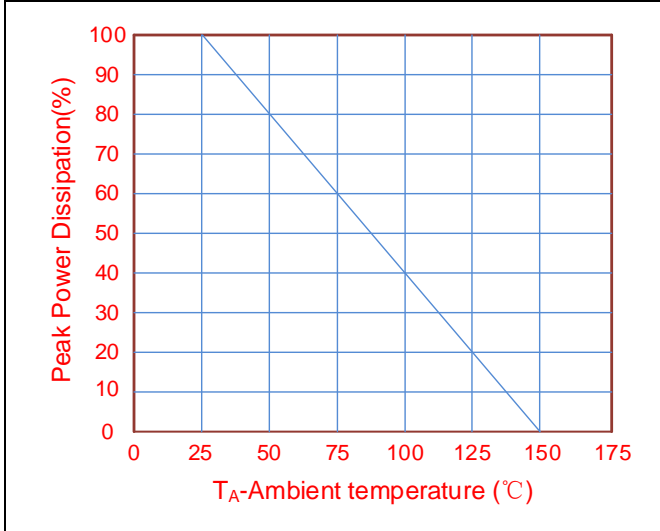


Figure 2. Surge Pulse Waveform

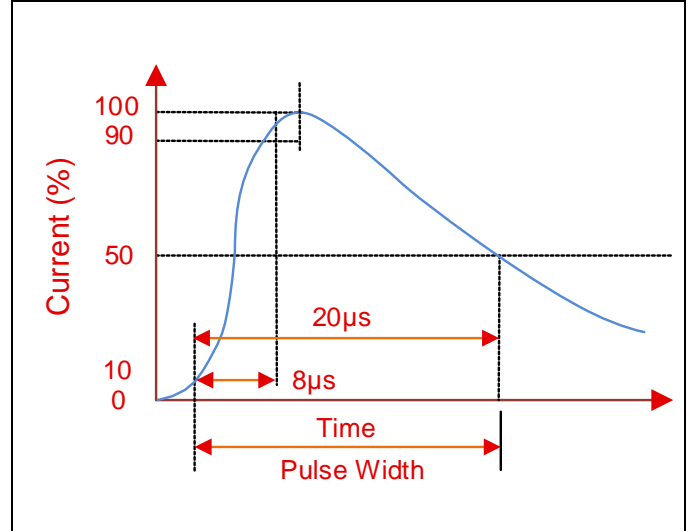
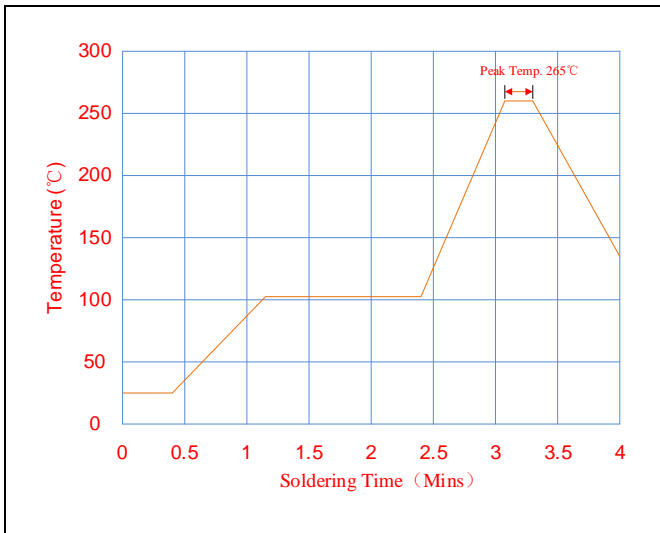
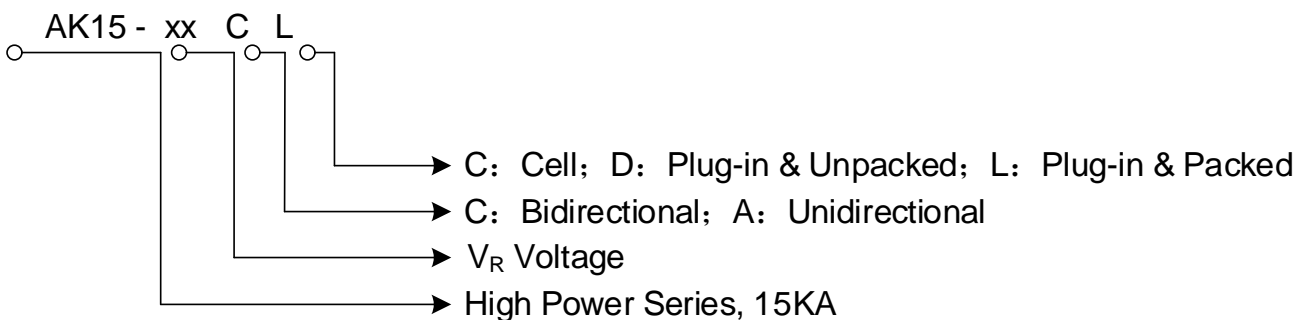


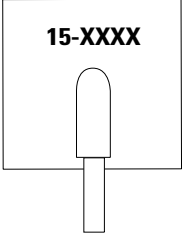
Figure 3. Wave Soldering Temperature Profile



Part Number Code



Part Number Code and Marking Code AK15-L Series

<p>Type 1 - Side View</p> <p>Part Marking</p> 	<p>Apply to P/N listed below:</p> <ul style="list-style-type: none">AK10-015CAK10-030CAK10-033CAK10-058CAK10-066CAK10-076C	<p>Part Numbering System</p> <p>AK15 XXXX</p> <p>Series Type ——— Stand Off Voltage</p> <p>(Please Refer to Electrical Characteristics Chart)</p>
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