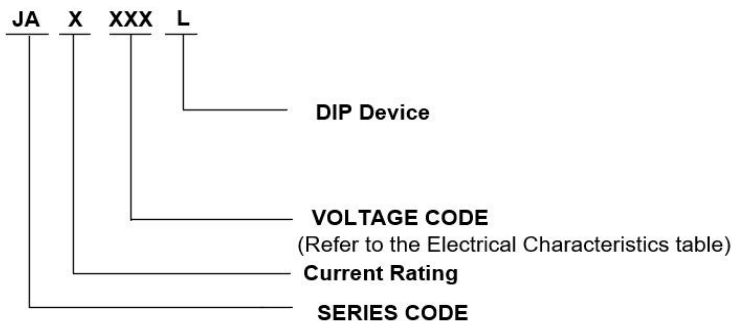


Features

- ◆ High current transient suppressors have been specially designed for use in AC line and DC line protection.
- ◆ Low incremental surge impedance.
- ◆ Excellent clamping capability.
- ◆ Bi-directional.
- ◆ High Temperature soldering guaranteed: 265°C/10 seconds/.375", (9.5mm) lead length, 5lbs (2.3kg) tension.
- ◆ Plastic package has underwriters laboratory flammability 94V-0.
- ◆ Meets MSL level 1, per J-STD-020.
- ◆ Meet HF and RoHS compliant.



Part Number Coding System



Applications

- ◆ Power Supply: Base station, New energy Auto etc.

Maximum Rating and Characteristics

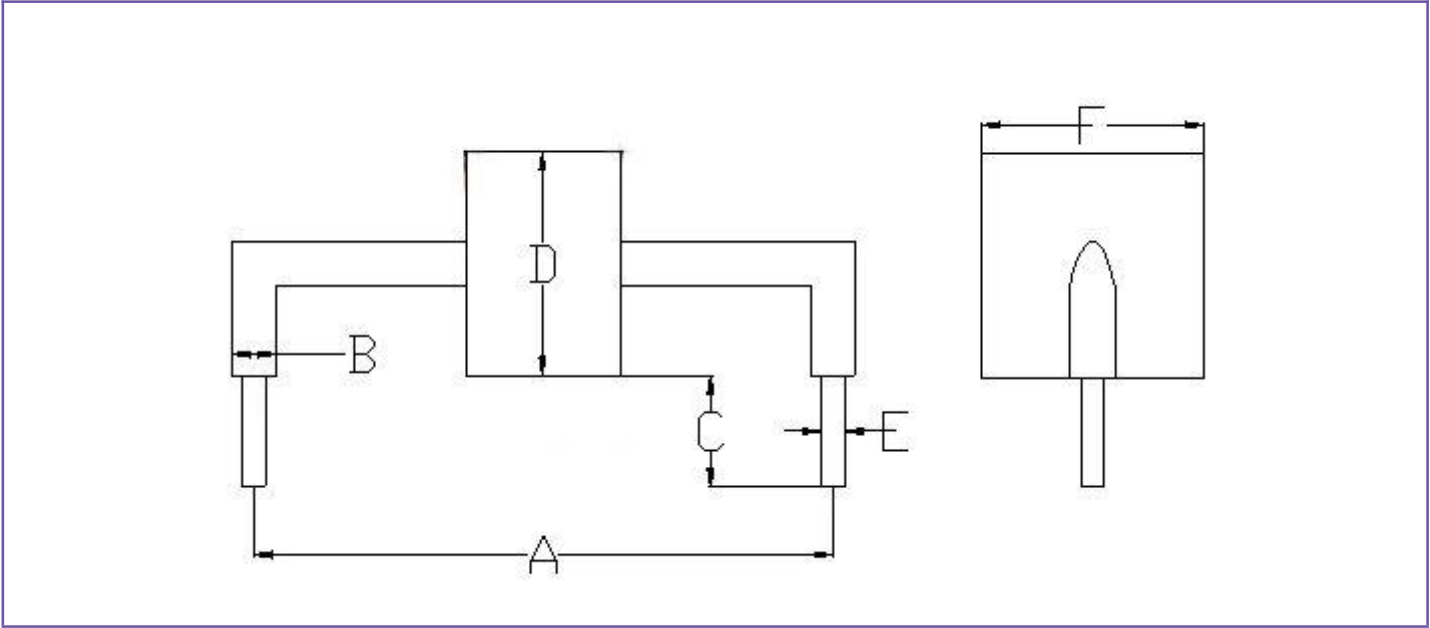
Parameters at 25°C ambient temperature unless otherwise Noted.

Rating	Symbol	Value		Unit
Current Rating	I _{PP}	JA3	3	KA
		JA6	6	
		JA10	10	
		JA16	16	
Operating Junction Temperature Range	T _J , T _{STG}	-40 to +125		°C

Notes:

1. Non-repetitive current pulse, per Fig.2 and derated above T_A=25°C per Fig.1.
2. Rated IPP measured with 8/20μs pulse.

Dimensions



JA3/JA6/JA10(020-190)-L Series		JA10(012/015/200/240/380)-L / JA16-L Series	
Dimensions	Millimeters	Dimensions	Millimeters
A	24.15±1.20	A	24.15±1.20
B	1.40Min	B	1.40Min
C	6.0±1.20	C	6.0±1.20
D	13.0 Max	D	16.0 Max
E	1.28±0.10	E	1.28±0.10
F	13.0 Max	F	16.0 Max

JA6-430L		JA10-430L	
Dimensions	Millimeters	Dimensions	Millimeters
A	27.00±1.20	A	26.00±1.20
B	1.40 Min	B	1.40 Min
C	2.00 Min	C	2.00 Min
D	13.0 Max	D	16.0 Max
E	1.28±0.10	E	1.28±0.10
F	13.0 Max	F	16.0 Max

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted)**JA3 SERIES**

Part Number	Reverse Stand-Off Voltage	Breakdown Voltage @ I_T	Test Current	Current Rating @8/20us	Maximum Clamping Voltage @ I_{PP}	Reverse Leakage @ V_{DC}
	V_{DC} (V)	V_{BR} (V) MIN.	I_T (mA)	I_{PP} (A)	V_C (V)	I_R (μ A)
JA3-012L	12.8	14	1	3KA	80	20
JA3-015L	15	17	1	3KA	85	20
JA3-020L	20	22	1	3KA	90	20
JA3-025L	25	28	1	3KA	95	20
JA3-030L	30	33	1	3KA	100	20
JA3-042L	42	47	1	3KA	105	20
JA3-058L	58	64	1	3KA	110	20
JA3-066L	66	70	1	3KA	120	20
JA3-076L	76	85	1	3KA	140	20
JA3-100L	100	110	1	3KA	165	20
JA3-133L	133	147	1	3KA	220	20
JA3-170L	170	180	1	3KA	260	20
JA3-190L	190	200	1	3KA	290	20
JA3-200L	200	222	1	3KA	330	20
JA3-240L	240	250	1	3KA	340	20
JA3-275L	275	300	1	3KA	435	20
JA3-300L	300	330	1	3KA	470	20
JA3-380L	380	401	1	3KA	520	20
JA3-430L	430	440	1	3KA	625	20
JA3-460L	460	500	1	3KA	770	20
JA3-500L	500	558	1	3KA	868	20
JA3-650L	650	680	1	3KA	900	20
JA3-1100L	1100	1200	1	3KA	2000	20

JA6 SERIES

Part Number	Reverse Stand-Off Voltage	Breakdown Voltage @I _T	Test Current	Current Rating @8/20us	Maximum Clamping Voltage @I _{PP}	Reverse Leakage @V _{DC}
	V _{DC} (V)	V _{BR} (V) MIN.	I _T (mA)	I _{PP} (A)	V _C (V)	I _R (μA)
JA6-012L	12.8	14	1	6KA	80	20
JA6-015L	15	17	1	6KA	85	20
JA6-020L	20	22	1	6KA	90	20
JA6-025L	25	28	1	6KA	95	20
JA6-030L	30	33	1	6KA	100	20
JA6-042L	42	47	1	6KA	105	20
JA6-058L	58	64	1	6KA	110	20
JA6-066L	66	70	1	6KA	120	20
JA6-076L	76	85	1	6KA	140	20
JA6-100L	100	110	1	6KA	165	20
JA6-133L	133	147	1	6KA	220	20
JA6-150L	150	165	1	6KA	240	20
JA6-170L	170	180	1	6KA	260	20
JA6-190L	190	200	1	6KA	290	20
JA6-200L	200	222	1	6KA	330	20
JA6-240L	240	250	1	6KA	340	20
JA6-275L	275	300	1	6KA	435	20
JA6-300L	300	330	1	6KA	470	20
JA6-380L	380	401	1	6KA	520	20
JA6-430L	430	440	1	6KA	625	20

JA10 SERIES

Part Number	Reverse Stand-Off Voltage	Breakdown Voltage @ I_T	Test Current	Current Rating @8/20us	Maximum Clamping Voltage @ I_{PP}	Reverse Leakage @ V_{DC}
	V_{DC} (V)	V_{BR} (V) MIN.	I_T (mA)	I_{PP} (A)	V_C (V)	I_R (μ A)
JA10-012L	12.8	14	1	10KA	80	20
JA10-015L	15	17	1	10KA	85	20
JA10-020L	20	22	1	10KA	90	20
JA10-025L	25	28	1	10KA	95	20
JA10-030L	30	33	1	10KA	100	20
JA10-042L	42	47	1	10KA	105	20
JA10-058L	58	64	1	10KA	110	20
JA10-066L	66	70	1	10KA	120	20
JA10-076L	76	85	1	10KA	140	20
JA10-100L	100	110	1	10KA	165	20
JA10-133L	133	147	1	10KA	220	20
JA10-170L	170	180	1	10KA	260	20
JA10-190L	190	200	1	10KA	290	20
JA10-200L	200	222	1	10KA	330	20
JA10-240L	240	250	1	10KA	340	20
JA10-380L	380	401	1	10KA	520	20
JA10-430L	430	440	1	10KA	625	20

JA16 SERIES

Part Number	Reverse Stand-Off Voltage	Breakdown Voltage @ I_T	Test Current	Current Rating @8/20us	Maximum Clamping Voltage @ I_{PP}	Reverse Leakage @ V_{DC}
	V_{DC} (V)	V_{BR} (V) MIN.	I_T (mA)	I_{PP} (A)	V_C (V)	I_R (μ A)
JA16-012L	12.8	14	1	16KA	80	20
JA16-015L	15	17	1	16KA	85	20
JA16-020L	20	22	1	16KA	90	20
JA16-025L	25	28	1	16KA	95	20
JA16-030L	30	33	1	16KA	100	20
JA16-042L	42	47	1	16KA	105	20
JA16-058L	58	64	1	16KA	110	20
JA16-066L	66	70	1	16KA	120	20
JA16-076L	76	85	1	16KA	140	20
JA16-100L	100	110	1	16KA	165	20
JA16-133L	133	147	1	16KA	220	20
JA16-170L	170	180	1	16KA	260	20
JA16-190L	190	200	1	16KA	290	20
JA16-200L	200	222	1	16KA	330	20

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

Figure 1. Power Derating Curve

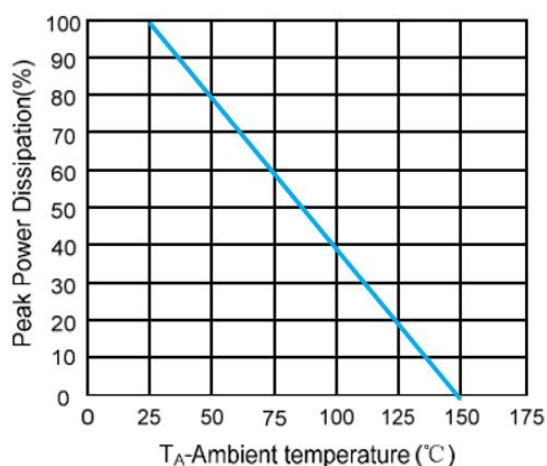
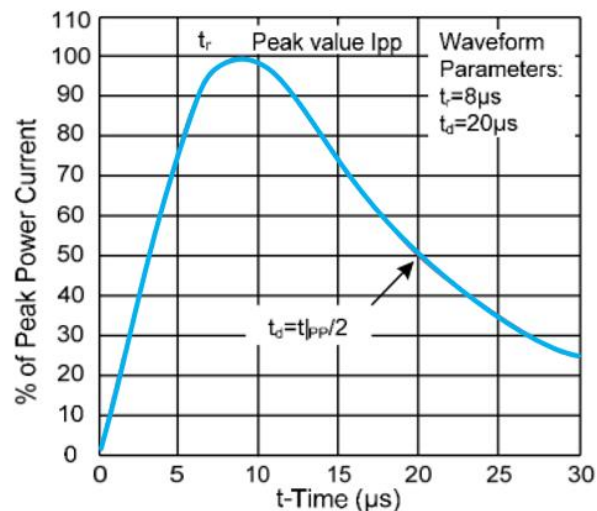
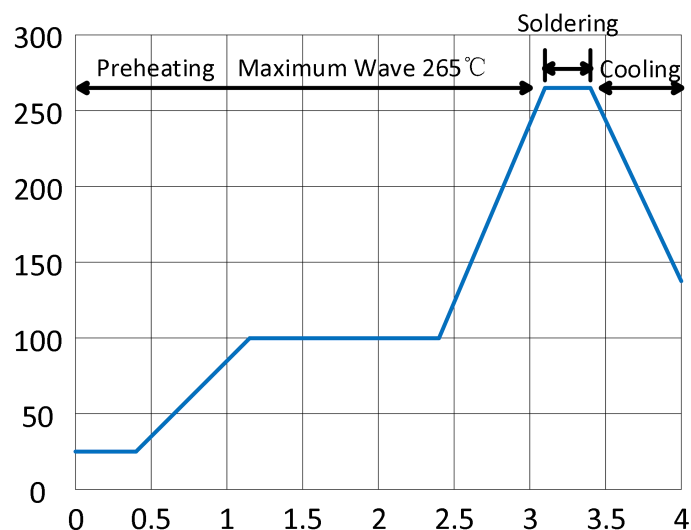


Figure 2. Pulse Waveform



Wave Soldering Parameters



Condition	Lead-free Assembly
Peak Temperature	265°C
Dipping Time	10 seconds
Soldering	1 time