

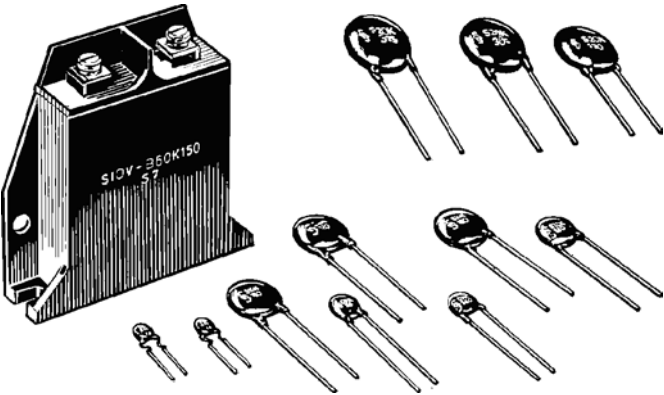
Metal Oxide Varistors

Applications requiring protection at operating voltage levels as low as 11 volts and as high as 1100 volts with energies rated up to 15000 Joules, depending on the device selected.

- Typical Protection Applications
- Protection of Semiconductors (Diodes, Transistors, Thyristors, ICs, Etc.)
 - Appliances Connected to 110 V or 220 VAC
 - Industrial Equipment Vulnerable to Transients on the AC Power Line (Computers, Traffic Controls, Motor Controllers, Etc.)
 - Protection of Equipment Connected to Telephone or Signal Lines, Such as Security Systems, Railroad Equipment, Fire Alarm Systems, Etc
 - Arc Suppression Across Relay and Switch Contacts
 - Power Control Equipment for Power Distribution Lines
 - GFI (Ground Fault Interrupters)

- Features
- Nanosecond Switching Response Time, <15 nsec., with Minimal Lead Length
 - High Transient Current Capability (Up to 100,000 Amps)
 - No Extinguishing or Follow-On Current Limitations
 - Compatible with Automatic Insertion; Tape and Reel Configuration Available on S05, S07, S10 and S14 Series

- Benefits
- Eliminates Dangerous Voltage Transients
 - Lowers Overall System Costs by Reducing Downtime and Maintenance Costs
 - Improves Component and System Reliability
 - Reduces EMP/RFI Interference



Mr.'s Type	Rated Voltage		Varistor Voltage (±10%) Volts	Rated Single Pulse Transient Energy Joules	Surge Current 8/20 µS Amps	Minimum Clamping Voltage Volts
	AC Volts (RMS)	DC Volts				
S05K11	11	14	18	0.3	100	36 @ 1.0 A
S07K11	11	14	18	0.8	250	36 @ 2.5 A
S07K11E2	11	14	18	0.8	500	36 @ 2.5 A
S10K11	11	14	18	1.7	500	36 @ 5.0 A
S14K11	11	14	18	3.2	1000	36 @ 10.0 A
S20K11	11	14	18	10.0	2000	36 @ 20.0 A
S05K14	14	18	22	0.4	100	43 @ 1.0 A
S07K14	14	18	22	0.9	250	43 @ 2.5 A
S07K14E2	14	18	22	0.9	500	43 @ 2.5 A
S10K14	14	18	22	2.0	500	43 @ 5.0 A
S14K14	14	18	22	4.0	1000	43 @ 10.0 A
S20K14	14	18	22	12.0	2000	43 @ 20.0 A
S05K17	17	22	27	0.5	100	53 @ 1.0 A
S07K17	17	22	27	1.1	250	53 @ 2.5 A
S14K17	17	22	27	5.0	1000	53 @ 10.0 A
S20K17	17	22	27	14.0	2000	53 @ 20.0 A
S07K20	20	26	33	1.3	250	65 @ 2.5 A
S10K20	20	26	33	3.1	500	65 @ 5.0 A
S14K20	20	26	33	6.0	1000	65 @ 10.0A
S20K20	20	26	33	18.0	2000	65 @ 20.0 A
S05K25	25	31	39	0.7	100	77 @ 1.0 A
S07K25	25	31	39	1.6	250	77 @ 2.5 A
S10K25	25	31	39	3.7	500	77 @ 5.0 A
S14K25	25	31	39	7.0	1000	77 @ 10.0 A
S20K25	25	31	39	22.0	2000	77 @ 20.0 A
S07K30	30	38	47	2.0	250	93 @ 2.5 A
S10K30	30	38	47	4.4	500	93 @ 5.0 A
S14K30	30	38	47	9.0	1000	93 @ 10.0 A
S05K35	35	45	56	1.1	100	110 @ 1.0 A
S07K35	35	45	56	2.5	250	110 @ 2.5 A
S10K35	35	45	56	5.4	500	110 @ 5.0 A
S14K35	35	45	56	10.0	1000	110 @ 10.0 A
S07K40	40	56	68	3.0	250	135 @ 2.5 A
S10K40	40	56	68	6.4	500	135 @ 5.0 A
S14K40	40	56	68	13.0	1000	135 @ 10.0 A
S07K50	50	65	82	4.2	1200	135 @ 10.0 A
S10K50	50	65	82	8.4	2500	135 @ 25.0 A
S14K50	50	65	82	15.0	4500	135 @ 50.0 A
S05K60	60	85	100	2.2	400	165 @ 5.0 A
S10K60	60	85	100	10.0	2500	165 @ 25.0 A
S14K60	60	85	100	17.0	4500	165 @ 50.0 A
S05K75	75	100	120	2.5	400	200 @ 5.0 A
S20K75	75	100	120	40.0	6500	200 @ 100.0 A
S05K95	95	125	150	3.4	400	250 @ 5.0 A
S10K95	95	125	150	15.0	2500	250 @ 25.0 A
S14K95	95	125	150	25.0	4500	250 @ 50.0 A
S07K130	130	170	205	9.5	2500	340 @ 10.0 A
S10K130	130	170	205	19.0	2500	340 @ 25.0 A
S14K130	130	170	205	34.0	4500	340 @ 50.0 A
S14K130E2	130	170	205	50.0	6000	340 @ 50.0 A
S20K130	130	170	205	70.0	8000	340 @ 100.0 A
S20K130E2	130	170	205	100.0	10000	340 @ 100.0 A
B32K130	130	170	205	210.0	25000	340 @ 100.0 A
B40K130	130	170	205	310.0	40000	340 @ 300.0 A

The B80 series is available with operating voltage levels through 1100 VAC (RMS).

Mr.'s Type	Rated Voltage		Varistor Voltage (±10%) Volts	Rated Single Pulse Transient Energy Joules	Surge Current 8/20 µS Amps	Minimum Clamping Voltage Volts
	AC Volts (RMS)	DC Volts				
B60K130	130	170	205	490.0	70000	340 @ 500.0 A
B80K130	130	170	205	660.0	100000	340 @ 800.0 A
S07K140	140	180	220	10.0	1200	360 @ 10.0 A
S14K140	140	180	220	36.0	4500	360 @ 50.0 A
S07K150	150	200	240	11.0	1200	395 @ 10.0 A
S10K150	150	200	240	24.0	1200	395 @ 25.0 A
S14K150	150	200	240	40.0	4500	395 @ 50.0 A
S20K150	150	200	240	85.0	8000	395 @ 100.0 A
S20K150E2	150	200	240	120.0	10000	395 @ 100.0 A
B32K150	150	200	240	240.0	25000	395 @ 200.0 A
B40K150	150	200	240	360.0	40000	395 @ 300.0 A
B60K150	150	200	240	570.0	70000	395 @ 500.0 A
B80K150	150	200	250	800.0	100000	395 @ 800.0 A
S07K175	175	225	270	13.0	1200	455 @ 10.0 A
S14K175	175	225	270	46.0	4500	455 @ 50.0 A
S07K230	230	300	360	17.0	1200	595 @ 10.0 A
S14K230	230	300	360	60.0	4500	595 @ 50.0 A
S07K250	250	320	390	19.0	1200	650 @ 10.0 A
S10K250	250	320	390	38.0	2500	650 @ 25.0 A
S14K250	250	320	390	65.0	4500	650 @ 50.0 A
S20K250	250	320	390	130.0	8000	650 @ 100.0 A
B32K250	250	320	390	340.0	25000	650 @ 200.0 A
B40K250	250	320	390	490.0	40000	650 @ 300.0 A
B60K250	250	320	390	800.0	70000	650 @ 500.0 A
S07K275	275	350	430	21.0	1200	710 @ 10.0 A
S10K275	275	350	430	43.0	2500	710 @ 25.0 A
S14K275	275	350	430	71.0	4500	710 @ 50.0 A
S20K275	275	350	430	140.0	8000	710 @ 100.0 A
B32K275	275	350	430	360.0	25000	710 @ 200.0 A
B40K275	275	350	430	550.0	40000	710 @ 300.0 A
B60K275	275	350	430	860.0	70000	710 @ 500.0 A
S07K300	300	385	470	23.0	1200	775 @ 10.0 A
S14K300	300	385	470	76.0	1400	775 @ 50.0 A
S20K300	300	385	470	160.0	8000	775 @ 100.0 A
S14K385	385	505	620	80.0	4500	1025 @ 50.0 A
S20K385	385	505	620	140.0	8000	1025 @ 100.0 A
B32K385	385	505	620	550.0	25000	1025 @ 200.0 A
S14K420	420	560	680	90.0	4500	1120 @ 50.0 A
S20K420	420	560	680	160.0	8000	1120 @ 100.0 A
B32K460	460	615	750	520.0	25000	1240 @ 200.0 A
B60K460	460	615	750	1200.0	70000	1240 @ 500.0 A
S14K510	510	670	820	110.0	4500	1355 @ 50.0 A
S20K510	510	670	820	190.0	6500	1355 @ 100.0 A
S14K550	550	745	910	120.0	4500	1500 @ 50.0 A
S20K550	550	745	910	210.0	6500	1500 @ 100.0 A
B32K550	550	745	910	620.0	25000	1500 @ 200.0 A
S14K625	625	825	1000	130.0	4500	1650 @ 50.0 A
S20K625	625	825	1000	230.0	6500	1650 @ 100.0 A
S14K680	680	895	1100	140.0	4500	1815 @ 50.0 A
S20K680	680	895	1100	250.0	4500	1815 @ 100.0 A
B40K750	750	1060	1200	1200.0	40000	2000 @ 300.0 A
S14K1000	1000	1465	1800	230.0	4500	2970 @ 50.0 A
S20K1000	1000	1465	1800	410.0	6500	2970 @ 100.0 A
—	—	—	—	—	—	—