



VZCA8.E480104 - Surge-protective Devices Certified for Canada - Component

Surge-protective Devices Certified for Canada - Component

Guangdong Huiwan Electronics Technology Co Ltd
 Plant C the Dichong second industrial park Gaobu town
 Dongguan, Guangdong 523287 China

E480104

Cat. No.	SPD Type	Volts (V)	AC/DC/ DC PV	AMPS PH	AMB		VPR (Vpk)	MLV (Vpk)	MCOV (V)	Vn (Vdc)	In (kA)	SCCR (kA)	Notes
					Min (°C)	Max (°C)							

Investigated to CSA C22.2 No. 269															
"20E H"															
V-201K-20E H	5	130	AC	1	N/A	-40	125	Ld-Ld	-	550	130	200	5	N/A	1, 5a
V-221K-20E H	5	140	AC	1	N/A	-40	125	Ld-Ld	-	590	140	220	5	N/A	1, 5a
V-241K-20E H	5	150	AC	1	N/A	-40	125	Ld-Ld	-	620	150	240	5	N/A	1, 5a
V-271K-20E H	5	175	AC	1	N/A	-40	125	Ld-Ld	-	710	175	270	5	N/A	1, 5a
V-301K-20E H	5	190	AC	1	N/A	-40	125	Ld-Ld	-	770	190	300	5	N/A	1, 5a
V-331K-20E H	5	210	AC	1	N/A	-40	125	Ld-Ld	-	840	210	330	5	N/A	1, 5a
V-361K-20E H	5	230	AC	1	N/A	-40	125	Ld-Ld	-	910	230	360	5	N/A	1, 5a
V-391K-20E H	5	250	AC	1	N/A	-40	125	Ld-Ld	-	980	250	390	5	N/A	1, 5a
V-431K-20E H	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1070	275	430	5	N/A	1, 5a
V-471K-20E H	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1160	300	470	5	N/A	1, 5a

V-511K-20E H	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1230	320	510	5	N/A	1, 5a
V-531K-20E H	5	330	AC	1	N/A	-40	125	Ld-Ld	-	1270	330	530	5	N/A	1, 5a
V-561K-20E H	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1340	350	560	5	N/A	1, 5a
V-621K-20E H	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1470	385	620	5	N/A	1, 5a
V-681K-20E H	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1600	420	680	5	N/A	1, 5a
V-751K-20E H	5	460	AC	1	N/A	-40	125	Ld-Ld	-	1740	460	750	5	N/A	1, 5a
"20E"															
V-101K-20E	5	60	AC	1	N/A	-40	85	Ld-Ld	-	370	60	100	5	N/A	1, 5a
V-102K-20E	5	625	AC	1	N/A	-40	85	Ld-Ld	-	2230	625	1000	3	N/A	1, 5a
V-112K-20E	5	680	AC	1	N/A	-40	85	Ld-Ld	-	2390	680	1100	3	N/A	1, 5a
V-121K-20E	5	75	AC	1	N/A	-40	85	Ld-Ld	-	420	75	120	5	N/A	1, 5a
V-151K-20E	5	95	AC	1	N/A	-40	85	Ld-Ld	-	500	95	150	5	N/A	1, 5a
V-181K-20E	5	115	AC	1	N/A	-40	85	Ld-Ld	-	570	115	180	5	N/A	1, 5a
V-182K-20E	5	1000	AC	1	N/A	-40	85	Ld-Ld	-	3730	1000	1800	3	N/A	1, 5a
V-201K-20E	5	130	AC	1	N/A	-40	85	Ld-Ld	-	570	130	200	5	N/A	1, 5a
V-221K-20E	5	140	AC	1	N/A	-40	85	Ld-Ld	-	610	140	220	5	N/A	1, 5a

V-241K-20E	5	150	AC	1	N/A	-40	85	Ld-Ld	-	650	150	240	5	N/A	1, 5a
V-271K-20E	5	175	AC	1	N/A	-40	85	Ld-Ld	-	750	175	270	5	N/A	1, 5a
V-301K-20E	5	190	AC	1	N/A	-40	85	Ld-Ld	-	810	190	300	5	N/A	1, 5a
V-331K-20E	5	210	AC	1	N/A	-40	85	Ld-Ld	-	890	210	330	5	N/A	1, 5a
V-361K-20E	5	230	AC	1	N/A	-40	85	Ld-Ld	-	970	230	360	5	N/A	1, 5a
V-391K-20E	5	250	AC	1	N/A	-40	85	Ld-Ld	-	1050	250	390	5	N/A	1, 5a
V-431K-20E	5	275	AC	1	N/A	-40	85	Ld-Ld	-	1150	275	430	5	N/A	1, 5a
V-471K-20E	5	300	AC	1	N/A	-40	85	Ld-Ld	-	1250	300	470	5	N/A	1, 5a
V-511K-20E	5	320	AC	1	N/A	-40	85	Ld-Ld	-	1320	320	510	5	N/A	1, 5a
V-531K-20E	5	330	AC	1	N/A	-40	85	Ld-Ld	-	1350	330	530	5	N/A	1, 5a
V-561K-20E	5	350	AC	1	N/A	-40	85	Ld-Ld	-	1420	350	560	5	N/A	1, 5a
V-621K-20E	5	385	AC	1	N/A	-40	85	Ld-Ld	-	1540	385	620	5	N/A	1, 5a
V-681K-20E	5	420	AC	1	N/A	-40	85	Ld-Ld	-	1660	420	680	5	N/A	1, 5a
V-751K-20E	5	460	AC	1	N/A	-40	85	Ld-Ld	-	1790	460	750	5	N/A	1, 5a
V-781K-20E	5	485	AC	1	N/A	-40	85	Ld-Ld	-	1880	485	780	5	N/A	1, 5a
V-820K-20E	5	50	AC	1	N/A	-40	85	Ld-Ld	-	330	50	82	5	N/A	1, 5a

V-821K-20E	5	510	AC	1	N/A	-40	85	Ld-Ld	-	1960	510	820	5	N/A	1, 5a
V-911K-20E	5	550	AC	1	N/A	-40	85	Ld-Ld	-	2000	550	910	3	N/A	1, 5a
"20D H"															
V-201K-20D H	5	130	AC	1	N/A	-40	125	Ld-Ld	-	550	130	200	5	N/A	1, 5a
V-221K-20D H	5	140	AC	1	N/A	-40	125	Ld-Ld	-	590	140	220	5	N/A	1, 5a
V-241K-20D H	5	150	AC	1	N/A	-40	125	Ld-Ld	-	620	150	240	5	N/A	1, 5a
V-271K-20D H	5	175	AC	1	N/A	-40	125	Ld-Ld	-	710	175	270	5	N/A	1, 5a
V-301K-20D H	5	190	AC	1	N/A	-40	125	Ld-Ld	-	770	190	300	5	N/A	1, 5a
V-331K-20D H	5	210	AC	1	N/A	-40	125	Ld-Ld	-	840	210	330	5	N/A	1, 5a
V-361K-20D H	5	230	AC	1	N/A	-40	125	Ld-Ld	-	910	230	360	5	N/A	1, 5a
V-391K-20D H	5	250	AC	1	N/A	-40	125	Ld-Ld	-	980	250	390	5	N/A	1, 5a
V-431K-20D H	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1070	275	430	5	N/A	1, 5a
V-471K-20D H	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1160	300	470	5	N/A	1, 5a
V-511K-20D H	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1230	320	510	5	N/A	1, 5a
V-531K-20D H	5	330	AC	1	N/A	-40	125	Ld-Ld	-	1270	330	530	5	N/A	1, 5a
V-561K-20D H	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1340	350	560	5	N/A	1, 5a

V-621K-20D H	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1470	385	620	5	N/A	1, 5a
V-681K-20D H	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1600	420	680	5	N/A	1, 5a
V-751K-20D H	5	460	AC	1	N/A	-40	125	Ld-Ld	-	1740	460	750	5	N/A	1, 5a
"20D"															
V-101K-20D	5	60	AC	1	N/A	-40	85	Ld-Ld	-	370	60	100	5	N/A	1, 5a
V-102K-20D	5	625	AC	1	N/A	-40	85	Ld-Ld	-	2230	625	1000	3	N/A	1, 5a
V-112K-20D	5	680	AC	1	N/A	-40	85	Ld-Ld	-	2390	680	1100	3	N/A	1, 5a
V-121K-20D	5	75	AC	1	N/A	-40	85	Ld-Ld	-	420	75	120	5	N/A	1, 5a
V-151K-20D	5	95	AC	1	N/A	-40	85	Ld-Ld	-	500	95	150	5	N/A	1, 5a
V-181K-20D	5	115	AC	1	N/A	-40	85	Ld-Ld	-	570	115	180	5	N/A	1, 5a
V-182K-20D	5	1000	AC	1	N/A	-40	85	Ld-Ld	-	3730	1000	1800	3	N/A	1, 5a
V-201K-20D	5	130	AC	1	N/A	-40	85	Ld-Ld	-	570	130	200	5	N/A	1, 5a
V-221K-20D	5	140	AC	1	N/A	-40	85	Ld-Ld	-	610	140	220	5	N/A	1, 5a
V-241K-20D	5	150	AC	1	N/A	-40	85	Ld-Ld	-	650	150	240	5	N/A	1, 5a
V-271K-20D	5	175	AC	1	N/A	-40	85	Ld-Ld	-	750	175	270	5	N/A	1, 5a
V-301K-20D	5	190	AC	1	N/A	-40	85	Ld-Ld	-	810	190	300	5	N/A	1, 5a

V-331K-20D	5	210	AC	1	N/A	-40	85	Ld-Ld	-	890	210	330	5	N/A	1, 5a
V-361K-20D	5	230	AC	1	N/A	-40	85	Ld-Ld	-	970	230	360	5	N/A	1, 5a
V-391K-20D	5	250	AC	1	N/A	-40	85	Ld-Ld	-	1050	250	390	5	N/A	1, 5a
V-431K-20D	5	275	AC	1	N/A	-40	85	Ld-Ld	-	1150	275	430	5	N/A	1, 5a
V-471K-20D	5	300	AC	1	N/A	-40	85	Ld-Ld	-	1250	300	470	5	N/A	1, 5a
V-511K-20D	5	320	AC	1	N/A	-40	85	Ld-Ld	-	1320	320	510	5	N/A	1, 5a
V-531K-20D	5	330	AC	1	N/A	-40	85	Ld-Ld	-	1350	330	530	5	N/A	1, 5a
V-561K-20D	5	350	AC	1	N/A	-40	85	Ld-Ld	-	1420	350	560	5	N/A	1, 5a
V-621K-20D	5	385	AC	1	N/A	-40	85	Ld-Ld	-	1540	385	620	5	N/A	1, 5a
V-681K-20D	5	420	AC	1	N/A	-40	85	Ld-Ld	-	1660	420	680	5	N/A	1, 5a
V-751K-20D	5	460	AC	1	N/A	-40	85	Ld-Ld	-	1790	460	750	5	N/A	1, 5a
V-781K-20D	5	485	AC	1	N/A	-40	85	Ld-Ld	-	1880	485	780	5	N/A	1, 5a
V-820K-20D	5	50	AC	1	N/A	-40	85	Ld-Ld	-	330	50	82	5	N/A	1, 5a
V-821K-20D	5	510	AC	1	N/A	-40	85	Ld-Ld	-	1960	510	820	5	N/A	1, 5a
V-911K-20D	5	550	AC	1	N/A	-40	85	Ld-Ld	-	2000	550	910	3	N/A	1, 5a
"14E H"															

V-201K-14E H	5	130	AC	1	N/A	-40	125	Ld-Ld	-	600	130	200	3	N/A	1, 5a
V-221K-14E H	5	140	AC	1	N/A	-40	125	Ld-Ld	-	640	140	220	3	N/A	1, 5a
V-241K-14E H	5	150	AC	1	N/A	-40	125	Ld-Ld	-	670	150	240	3	N/A	1, 5a
V-271K-14E H	5	175	AC	1	N/A	-40	125	Ld-Ld	-	760	175	270	3	N/A	1, 5a
V-301K-14E H	5	190	AC	1	N/A	-40	125	Ld-Ld	-	820	190	300	3	N/A	1, 5a
V-331K-14E H	5	210	AC	1	N/A	-40	125	Ld-Ld	-	890	210	330	3	N/A	1, 5a
V-361K-14E H	5	230	AC	1	N/A	-40	125	Ld-Ld	-	960	230	360	3	N/A	1, 5a
V-391K-14E H	5	250	AC	1	N/A	-40	125	Ld-Ld	-	1040	250	390	3	N/A	1, 5a
V-431K-14E H	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1130	275	430	3	N/A	1, 5a
V-471K-14E H	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1220	300	470	3	N/A	1, 5a
V-511K-14E H	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1300	320	510	3	N/A	1, 5a
V-531K-14E H	5	330	AC	1	N/A	-40	125	Ld-Ld	-	1330	330	530	3	N/A	1, 5a
V-561K-14E H	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1410	350	560	3	N/A	1, 5a
V-621K-14E H	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1540	385	620	3	N/A	1, 5a
V-681K-14E H	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1670	420	680	3	N/A	1, 5a
V-751K-14E H	5	460	AC	1	N/A	-40	125	Ld-Ld	-	1820	460	750	3	N/A	1, 5a

"14E"															
V-101K-14E	5	60	AC	1	N/A	-40	85	Ld-Ld	-	340	60	100	3	N/A	1, 5a
V-102K-14E	5	625	AC	1	N/A	-40	85	Ld-Ld	-	2490	625	1000	3	N/A	1, 5a
V-112K-14E	5	680	AC	1	N/A	-40	85	Ld-Ld	-	2660	680	1100	3	N/A	1, 5a
V-121K-14E	5	75	AC	1	N/A	-40	85	Ld-Ld	-	390	75	120	3	N/A	1, 5a
V-151K-14E	5	95	AC	1	N/A	-40	85	Ld-Ld	-	450	95	150	3	N/A	1, 5a
V-181K-14E	5	115	AC	1	N/A	-40	85	Ld-Ld	-	510	115	180	3	N/A	1, 5a
V-201K-14E	5	130	AC	1	N/A	-40	85	Ld-Ld	-	530	130	200	3	N/A	1, 5a
V-221K-14E	5	140	AC	1	N/A	-40	85	Ld-Ld	-	570	140	220	3	N/A	1, 5a
V-241K-14E	5	150	AC	1	N/A	-40	85	Ld-Ld	-	610	150	240	3	N/A	1, 5a
V-271K-14E	5	175	AC	1	N/A	-40	85	Ld-Ld	-	720	175	270	3	N/A	1, 5a
V-301K-14E	5	190	AC	1	N/A	-40	85	Ld-Ld	-	780	190	300	3	N/A	1, 5a
V-331K-14E	5	210	AC	1	N/A	-40	85	Ld-Ld	-	860	210	330	3	N/A	1, 5a
V-361K-14E	5	230	AC	1	N/A	-40	85	Ld-Ld	-	950	230	360	3	N/A	1, 5a
V-391K-14E	5	250	AC	1	N/A	-40	85	Ld-Ld	-	1030	250	390	3	N/A	1, 5a
V-431K-14E	5	275	AC	1	N/A	-40	85	Ld-Ld	-	1140	275	430	3	N/A	1, 5a

V-471K-14E	5	300	AC	1	N/A	-40	85	Ld-Ld	-	1240	300	470	3	N/A	1, 5a
V-511K-14E	5	320	AC	1	N/A	-40	85	Ld-Ld	-	1320	320	510	3	N/A	1, 5a
V-531K-14E	5	330	AC	1	N/A	-40	85	Ld-Ld	-	1360	330	530	3	N/A	1, 5a
V-561K-14E	5	350	AC	1	N/A	-40	85	Ld-Ld	-	1440	350	560	3	N/A	1, 5a
V-621K-14E	5	385	AC	1	N/A	-40	85	Ld-Ld	-	1580	385	620	3	N/A	1, 5a
V-681K-14E	5	420	AC	1	N/A	-40	85	Ld-Ld	-	1720	420	680	3	N/A	1, 5a
V-751K-14E	5	460	AC	1	N/A	-40	85	Ld-Ld	-	1890	460	750	3	N/A	1, 5a
V-781K-14E	5	485	AC	1	N/A	-40	85	Ld-Ld	-	1990	485	780	3	N/A	1, 5a
V-820K-14E	5	50	AC	1	N/A	-40	85	Ld-Ld	-	310	50	82	3	N/A	1, 5a
V-821K-14E	5	510	AC	1	N/A	-40	85	Ld-Ld	-	2090	510	820	3	N/A	1, 5a
V-911K-14E	5	550	AC	1	N/A	-40	85	Ld-Ld	-	2250	550	910	3	N/A	1, 5a
"14D H"															
V-201K-14D H	5	130	AC	1	N/A	-40	125	Ld-Ld	-	600	130	200	3	N/A	1, 5a
V-221K-14D H	5	140	AC	1	N/A	-40	125	Ld-Ld	-	640	140	220	3	N/A	1, 5a
V-241K-14D H	5	150	AC	1	N/A	-40	125	Ld-Ld	-	670	150	240	3	N/A	1, 5a
V-271K-14D H	5	175	AC	1	N/A	-40	125	Ld-Ld	-	760	175	270	3	N/A	1, 5a

V-301K-14D H	5	190	AC	1	N/A	-40	125	Ld-Ld	-	820	190	300	3	N/A	1, 5a
V-331K-14D H	5	210	AC	1	N/A	-40	125	Ld-Ld	-	890	210	330	3	N/A	1, 5a
V-361K-14D H	5	230	AC	1	N/A	-40	125	Ld-Ld	-	960	230	360	3	N/A	1, 5a
V-391K-14D H	5	250	AC	1	N/A	-40	125	Ld-Ld	-	1040	250	390	3	N/A	1, 5a
V-431K-14D H	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1130	275	430	3	N/A	1, 5a
V-471K-14D H	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1220	300	470	3	N/A	1, 5a
V-511K-14D H	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1300	320	510	3	N/A	1, 5a
V-531K-14D H	5	330	AC	1	N/A	-40	125	Ld-Ld	-	1330	330	530	3	N/A	1, 5a
V-561K-14D H	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1410	350	560	3	N/A	1, 5a
V-621K-14D H	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1540	385	620	3	N/A	1, 5a
V-681K-14D H	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1670	420	680	3	N/A	1, 5a
V-751K-14D H	5	460	AC	1	N/A	-40	125	Ld-Ld	-	1820	460	750	3	N/A	1, 5a
"14D"															
V-101K-14D	5	60	AC	1	N/A	-40	85	Ld-Ld	-	340	60	100	3	N/A	1, 5a
V-102K-14D	5	625	AC	1	N/A	-40	85	Ld-Ld	-	2490	625	1000	3	N/A	1, 5a
V-112K-14D	5	680	AC	1	N/A	-40	85	Ld-Ld	-	2660	680	1100	3	N/A	1, 5a

V-121K-14D	5	75	AC	1	N/A	-40	85	Ld-Ld	-	390	75	120	3	N/A	1, 5a
V-151K-14D	5	95	AC	1	N/A	-40	85	Ld-Ld	-	450	95	150	3	N/A	1, 5a
V-181K-14D	5	115	AC	1	N/A	-40	85	Ld-Ld	-	510	115	180	3	N/A	1, 5a
V-201K-14D	5	130	AC	1	N/A	-40	85	Ld-Ld	-	530	130	200	3	N/A	1, 5a
V-221K-14D	5	140	AC	1	N/A	-40	85	Ld-Ld	-	570	140	220	3	N/A	1, 5a
V-241K-14D	5	150	AC	1	N/A	-40	85	Ld-Ld	-	610	150	240	3	N/A	1, 5a
V-271K-14D	5	175	AC	1	N/A	-40	85	Ld-Ld	-	720	175	270	3	N/A	1, 5a
V-301K-14D	5	190	AC	1	N/A	-40	85	Ld-Ld	-	780	190	300	3	N/A	1, 5a
V-331K-14D	5	210	AC	1	N/A	-40	85	Ld-Ld	-	860	210	330	3	N/A	1, 5a
V-361K-14D	5	230	AC	1	N/A	-40	85	Ld-Ld	-	950	230	360	3	N/A	1, 5a
V-391K-14D	5	250	AC	1	N/A	-40	85	Ld-Ld	-	1030	250	390	3	N/A	1, 5a
V-431K-14D	5	275	AC	1	N/A	-40	85	Ld-Ld	-	1140	275	430	3	N/A	1, 5a
V-471K-14D	5	300	AC	1	N/A	-40	85	Ld-Ld	-	1240	300	470	3	N/A	1, 5a
V-511K-14D	5	320	AC	1	N/A	-40	85	Ld-Ld	-	1320	320	510	3	N/A	1, 5a
V-531K-14D	5	330	AC	1	N/A	-40	85	Ld-Ld	-	1360	330	530	3	N/A	1, 5a
V-561K-14D	5	350	AC	1	N/A	-40	85	Ld-Ld	-	1440	350	560	3	N/A	1, 5a

V-621K-14D	5	385	AC	1	N/A	-40	85	Ld-Ld	-	1580	385	620	3	N/A	1, 5a
V-681K-14D	5	420	AC	1	N/A	-40	85	Ld-Ld	-	1720	420	680	3	N/A	1, 5a
V-751K-14D	5	460	AC	1	N/A	-40	85	Ld-Ld	-	1890	460	750	3	N/A	1, 5a
V-781K-14D	5	485	AC	1	N/A	-40	85	Ld-Ld	-	1990	485	780	3	N/A	1, 5a
V-820K-14D	5	50	AC	1	N/A	-40	85	Ld-Ld	-	310	50	82	3	N/A	1, 5a
V-821K-14D	5	510	AC	1	N/A	-40	85	Ld-Ld	-	2090	510	820	3	N/A	1, 5a
V-911K-14D	5	550	AC	1	N/A	-40	85	Ld-Ld	-	2250	550	910	3	N/A	1, 5a
"10E H"															
V-201K-10E H	5	130	AC	1	N/A	-40	125	Ld-Ld	-	730	130	200	3	N/A	1, 5a
V-221K-10E H	5	140	AC	1	N/A	-40	125	Ld-Ld	-	760	140	220	3	N/A	1, 5a
V-241K-10E H	5	150	AC	1	N/A	-40	125	Ld-Ld	-	800	150	240	3	N/A	1, 5a
V-271K-10E H	5	175	AC	1	N/A	-40	125	Ld-Ld	-	880	175	270	3	N/A	1, 5a
V-301K-10E H	5	190	AC	1	N/A	-40	125	Ld-Ld	-	930	190	300	3	N/A	1, 5a
V-331K-10E H	5	210	AC	1	N/A	-40	125	Ld-Ld	-	1000	210	330	3	N/A	1, 5a
V-361K-10E H	5	230	AC	1	N/A	-40	125	Ld-Ld	-	1070	230	360	3	N/A	1, 5a
V-391K-10E H	5	250	AC	1	N/A	-40	125	Ld-Ld	-	1140	250	390	3	N/A	1, 5a

V-431K-10E H	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1220	275	430	3	N/A	1, 5a
V-471K-10E H	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1310	300	470	3	N/A	1, 5a
V-511K-10E H	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1400	320	510	3	N/A	1, 5a
V-531K-10E H	5	330	AC	1	N/A	-40	125	Ld-Ld	-	1440	330	530	3	N/A	1, 5a
V-561K-10E H	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1530	350	560	3	N/A	1, 5a
V-621K-10E H	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1680	385	620	3	N/A	1, 5a
V-681K-10E H	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1830	420	680	3	N/A	1, 5a
V-751K-10E H	5	460	AC	1	N/A	-40	125	Ld-Ld	-	2000	460	750	3	N/A	1, 5a
"10E"															
V-101K-10E	5	60	AC	1	N/A	-40	85	Ld-Ld	-	290	60	100	1.5	N/A	1, 5a
V-102K-10E	5	625	AC	1	N/A	-40	85	Ld-Ld	-	2330	625	1000	1.5	N/A	1, 5a
V-112K-10E	5	680	AC	1	N/A	-40	85	Ld-Ld	-	2470	680	1100	1.5	N/A	1, 5a
V-121K-10E	5	75	AC	1	N/A	-40	85	Ld-Ld	-	340	75	120	1.5	N/A	1, 5a
V-151K-10E	5	95	AC	1	N/A	-40	85	Ld-Ld	-	410	95	150	1.5	N/A	1, 5a
V-181K-10E	5	115	AC	1	N/A	-40	85	Ld-Ld	-	480	115	180	1.5	N/A	1, 5a
V-182K-10E	5	1000	AC	1	N/A	-40	85	Ld-Ld	-	3770	1000	1800	1.5	N/A	1, 5a

V-201K-10E	5	130	AC	1	N/A	-40	85	Ld-Ld	-	540	130	200	1.5	N/A	1, 5a
V-221K-10E	5	140	AC	1	N/A	-40	85	Ld-Ld	-	580	140	220	1.5	N/A	1, 5a
V-241K-10E	5	150	AC	1	N/A	-40	85	Ld-Ld	-	620	150	240	1.5	N/A	1, 5a
V-271K-10E	5	175	AC	1	N/A	-40	85	Ld-Ld	-	710	175	270	1.5	N/A	1, 5a
V-301K-10E	5	190	AC	1	N/A	-40	85	Ld-Ld	-	770	190	300	1.5	N/A	1, 5a
V-331K-10E	5	210	AC	1	N/A	-40	85	Ld-Ld	-	850	210	330	1.5	N/A	1, 5a
V-361K-10E	5	230	AC	1	N/A	-40	85	Ld-Ld	-	930	230	360	1.5	N/A	1, 5a
V-391K-10E	5	250	AC	1	N/A	-40	85	Ld-Ld	-	1010	250	390	1.5	N/A	1, 5a
V-431K-10E	5	275	AC	1	N/A	-40	85	Ld-Ld	-	1100	275	430	1.5	N/A	1, 5a
V-471K-10E	5	300	AC	1	N/A	-40	85	Ld-Ld	-	1200	300	470	1.5	N/A	1, 5a
V-511K-10E	5	320	AC	1	N/A	-40	85	Ld-Ld	-	1280	320	510	1.5	N/A	1, 5a
V-531K-10E	5	330	AC	1	N/A	-40	85	Ld-Ld	-	1310	330	530	1.5	N/A	1, 5a
V-561K-10E	5	350	AC	1	N/A	-40	85	Ld-Ld	-	1390	350	560	1.5	N/A	1, 5a
V-621K-10E	5	385	AC	1	N/A	-40	85	Ld-Ld	-	1520	385	620	1.5	N/A	1, 5a
V-681K-10E	5	420	AC	1	N/A	-40	85	Ld-Ld	-	1650	420	680	1.5	N/A	1, 5a
V-751K-10E	5	460	AC	1	N/A	-40	85	Ld-Ld	-	1800	460	750	1.5	N/A	1, 5a

V-781K-10E	5	485	AC	1	N/A	-40	85	Ld-Ld	-	1900	485	780	1.5	N/A	1, 5a
V-820K-10E	5	50	AC	1	N/A	-40	85	Ld-Ld	-	250	50	82	1.5	N/A	1, 5a
V-821K-10E	5	510	AC	1	N/A	-40	85	Ld-Ld	-	1990	510	820	1.5	N/A	1, 5a
V-911K-10E	5	550	AC	1	N/A	-40	85	Ld-Ld	-	2140	550	910	1.5	N/A	1, 5a
"10D H"															
V-201K-10D H	5	130	AC	1	N/A	-40	125	Ld-Ld	-	730	130	200	3	N/A	1, 5a
V-221K-10D H	5	140	AC	1	N/A	-40	125	Ld-Ld	-	760	140	220	3	N/A	1, 5a
V-241K-10D H	5	150	AC	1	N/A	-40	125	Ld-Ld	-	800	150	240	3	N/A	1, 5a
V-271K-10D H	5	175	AC	1	N/A	-40	125	Ld-Ld	-	880	175	270	3	N/A	1, 5a
V-301K-10D H	5	190	AC	1	N/A	-40	125	Ld-Ld	-	930	190	300	3	N/A	1, 5a
V-331K-10D H	5	210	AC	1	N/A	-40	125	Ld-Ld	-	1000	210	330	3	N/A	1, 5a
V-361K-10D H	5	230	AC	1	N/A	-40	125	Ld-Ld	-	1070	230	360	3	N/A	1, 5a
V-391K-10D H	5	250	AC	1	N/A	-40	125	Ld-Ld	-	1140	250	390	3	N/A	1, 5a
V-431K-10D H	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1220	275	430	3	N/A	1, 5a
V-471K-10D H	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1310	300	470	3	N/A	1, 5a
V-511K-10D H	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1400	320	510	3	N/A	1, 5a

V-531K-10D H	5	330	AC	1	N/A	-40	125	Ld-Ld	-	1440	330	530	3	N/A	1, 5a
V-561K-10D H	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1530	350	560	3	N/A	1, 5a
V-621K-10D H	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1680	385	620	3	N/A	1, 5a
V-681K-10D H	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1830	420	680	3	N/A	1, 5a
V-751K-10D H	5	460	AC	1	N/A	-40	125	Ld-Ld	-	2000	460	750	3	N/A	1, 5a
"10D"															
V-101K-10D	5	60	AC	1	N/A	-40	85	Ld-Ld	-	290	60	100	1.5	N/A	1, 5a
V-102K-10D	5	625	AC	1	N/A	-40	85	Ld-Ld	-	2330	625	1000	1.5	N/A	1, 5a
V-112K-10D	5	680	AC	1	N/A	-40	85	Ld-Ld	-	2470	680	1100	1.5	N/A	1, 5a
V-121K-10D	5	75	AC	1	N/A	-40	85	Ld-Ld	-	340	75	120	1.5	N/A	1, 5a
V-151K-10D	5	95	AC	1	N/A	-40	85	Ld-Ld	-	410	95	150	1.5	N/A	1, 5a
V-181K-10D	5	115	AC	1	N/A	-40	85	Ld-Ld	-	480	115	180	1.5	N/A	1, 5a
V-182K-10D	5	1000	AC	1	N/A	-40	85	Ld-Ld	-	3770	1000	1800	1.5	N/A	1, 5a
V-201K-10D	5	130	AC	1	N/A	-40	85	Ld-Ld	-	540	130	200	1.5	N/A	1, 5a
V-221K-10D	5	140	AC	1	N/A	-40	85	Ld-Ld	-	580	140	220	1.5	N/A	1, 5a
V-241K-10D	5	150	AC	1	N/A	-40	85	Ld-Ld	-	620	150	240	1.5	N/A	1, 5a

V-271K-10D	5	175	AC	1	N/A	-40	85	Ld-Ld	-	710	175	270	1.5	N/A	1, 5a
V-301K-10D	5	190	AC	1	N/A	-40	85	Ld-Ld	-	770	190	300	1.5	N/A	1, 5a
V-331K-10D	5	210	AC	1	N/A	-40	85	Ld-Ld	-	850	210	330	1.5	N/A	1, 5a
V-361K-10D	5	230	AC	1	N/A	-40	85	Ld-Ld	-	930	230	360	1.5	N/A	1, 5a
V-391K-10D	5	250	AC	1	N/A	-40	85	Ld-Ld	-	1010	250	390	1.5	N/A	1, 5a
V-431K-10D	5	275	AC	1	N/A	-40	85	Ld-Ld	-	1100	275	430	1.5	N/A	1, 5a
V-471K-10D	5	300	AC	1	N/A	-40	85	Ld-Ld	-	1200	300	470	1.5	N/A	1, 5a
V-511K-10D	5	320	AC	1	N/A	-40	85	Ld-Ld	-	1280	320	510	1.5	N/A	1, 5a
V-531K-10D	5	330	AC	1	N/A	-40	85	Ld-Ld	-	1310	330	530	1.5	N/A	1, 5a
V-561K-10D	5	350	AC	1	N/A	-40	85	Ld-Ld	-	1390	350	560	1.5	N/A	1, 5a
V-621K-10D	5	385	AC	1	N/A	-40	85	Ld-Ld	-	1520	385	620	1.5	N/A	1, 5a
V-681K-10D	5	420	AC	1	N/A	-40	85	Ld-Ld	-	1650	420	680	1.5	N/A	1, 5a
V-751K-10D	5	460	AC	1	N/A	-40	85	Ld-Ld	-	1800	460	750	1.5	N/A	1, 5a
V-781K-10D	5	485	AC	1	N/A	-40	85	Ld-Ld	-	1900	485	780	1.5	N/A	1, 5a
V-820K-10D	5	50	AC	1	N/A	-40	85	Ld-Ld	-	250	50	82	1.5	N/A	1, 5a
V-821K-10D	5	510	AC	1	N/A	-40	85	Ld-Ld	-	1990	510	820	1.5	N/A	1, 5a

V-911K-10D	5	550	AC	1	N/A	-40	85	Ld-Ld	-	2140	550	910	1.5	N/A	1, 5a
"07E H"															
V-201K-07E H	5	130	AC	1	N/A	-40	125	Ld-Ld	-	600	130	200	1	N/A	1, 5a
V-221K-07E H	5	140	AC	1	N/A	-40	125	Ld-Ld	-	630	140	220	1	N/A	1, 5a
V-241K-07E H	5	150	AC	1	N/A	-40	125	Ld-Ld	-	670	150	240	1	N/A	1, 5a
V-271K-07E H	5	175	AC	1	N/A	-40	125	Ld-Ld	-	750	175	270	1	N/A	1, 5a
V-301K-07E H	5	190	AC	1	N/A	-40	125	Ld-Ld	-	800	190	300	1	N/A	1, 5a
V-331K-07E H	5	210	AC	1	N/A	-40	125	Ld-Ld	-	870	210	330	1	N/A	1, 5a
V-361K-07E H	5	230	AC	1	N/A	-40	125	Ld-Ld	-	940	230	360	1	N/A	1, 5a
V-391K-07E H	5	250	AC	1	N/A	-40	125	Ld-Ld	-	1000	250	390	1	N/A	1, 5a
V-431K-07E H	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1090	275	430	1	N/A	1, 5a
V-471K-07E H	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1170	300	470	1	N/A	1, 5a
V-511K-07E H	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1250	320	510	1	N/A	1, 5a
V-531K-07E H	5	330	AC	1	N/A	-40	125	Ld-Ld	-	1300	330	530	1	N/A	1, 5a
V-561K-07E H	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1380	350	560	1	N/A	1, 5a
V-621K-07E H	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1530	385	620	1	N/A	1, 5a

V-681K-07E H	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1670	420	680	1	N/A	1, 5a
V-751K-07E H	5	460	AC	1	N/A	-40	125	Ld-Ld	-	1840	460	750	1	N/A	1, 5a
"07E"															
V-101K-07E	5	60	AC	1	N/A	-40	85	Ld-Ld	-	250	60	100	0.5	N/A	1, 5a
V-121K-07E	5	75	AC	1	N/A	-40	85	Ld-Ld	-	300	75	120	0.5	N/A	1, 5a
V-151K-07E	5	95	AC	1	N/A	-40	85	Ld-Ld	-	370	95	150	0.5	N/A	1, 5a
V-181K-07E	5	115	AC	1	N/A	-40	85	Ld-Ld	-	430	115	180	0.5	N/A	1, 5a
V-201K-07E	5	130	AC	1	N/A	-40	85	Ld-Ld	-	470	130	200	0.5	N/A	1, 5a
V-221K-07E	5	140	AC	1	N/A	-40	85	Ld-Ld	-	500	140	220	0.5	N/A	1, 5a
V-241K-07E	5	150	AC	1	N/A	-40	85	Ld-Ld	-	540	150	240	0.5	N/A	1, 5a
V-271K-07E	5	175	AC	1	N/A	-40	85	Ld-Ld	-	630	175	270	0.5	N/A	1, 5a
V-301K-07E	5	190	AC	1	N/A	-40	85	Ld-Ld	-	680	190	300	0.5	N/A	1, 5a
V-331K-07E	5	210	AC	1	N/A	-40	85	Ld-Ld	-	750	210	330	0.5	N/A	1, 5a
V-361K-07E	5	230	AC	1	N/A	-40	85	Ld-Ld	-	820	230	360	0.5	N/A	1, 5a
V-391K-07E	5	250	AC	1	N/A	-40	85	Ld-Ld	-	890	250	390	0.5	N/A	1, 5a
V-431K-07E	5	275	AC	1	N/A	-40	85	Ld-Ld	-	970	275	430	0.5	N/A	1, 5a

V-471K-07E	5	300	AC	1	N/A	-40	85	Ld-Ld	-	1060	300	470	0.5	N/A	1, 5a
V-511K-07E	5	320	AC	1	N/A	-40	85	Ld-Ld	-	1140	320	510	0.5	N/A	1, 5a
V-531K-07E	5	330	AC	1	N/A	-40	85	Ld-Ld	-	1170	330	530	0.5	N/A	1, 5a
V-561K-07E	5	350	AC	1	N/A	-40	85	Ld-Ld	-	1250	350	560	0.5	N/A	1, 5a
V-621K-07E	5	385	AC	1	N/A	-40	85	Ld-Ld	-	1380	385	620	0.5	N/A	1, 5a
V-681K-07E	5	420	AC	1	N/A	-40	85	Ld-Ld	-	1520	420	680	0.5	N/A	1, 5a
V-751K-07E	5	460	AC	1	N/A	-40	85	Ld-Ld	-	1670	460	750	0.5	N/A	1, 5a
V-781K-07E	5	485	AC	1	N/A	-40	85	Ld-Ld	-	1760	485	780	0.5	N/A	1, 5a
V-820K-07E	5	50	AC	1	N/A	-40	85	Ld-Ld	-	220	50	82	0.5	N/A	1, 5a
V-821K-07E	5	510	AC	1	N/A	-40	85	Ld-Ld	-	1860	510	820	0.5	N/A	1, 5a
V-911K-07E	5	550	AC	1	N/A	-40	85	Ld-Ld	-	2010	550	910	0.5	N/A	1, 5a
"07D H"															
V-201K-07D H	5	130	AC	1	N/A	-40	125	Ld-Ld	-	600	130	200	1	N/A	1, 5a
V-221K-07D H	5	140	AC	1	N/A	-40	125	Ld-Ld	-	630	140	220	1	N/A	1, 5a
V-241K-07D H	5	150	AC	1	N/A	-40	125	Ld-Ld	-	670	150	240	1	N/A	1, 5a
V-271K-07D H	5	175	AC	1	N/A	-40	125	Ld-Ld	-	750	175	270	1	N/A	1, 5a

V-301K-07D H	5	190	AC	1	N/A	-40	125	Ld-Ld	-	800	190	300	1	N/A	1, 5a
V-331K-07D H	5	210	AC	1	N/A	-40	125	Ld-Ld	-	870	210	330	1	N/A	1, 5a
V-361K-07D H	5	230	AC	1	N/A	-40	125	Ld-Ld	-	940	230	360	1	N/A	1, 5a
V-391K-07D H	5	250	AC	1	N/A	-40	125	Ld-Ld	-	1000	250	390	1	N/A	1, 5a
V-431K-07D H	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1090	275	430	1	N/A	1, 5a
V-471K-07D H	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1170	300	470	1	N/A	1, 5a
V-511K-07D H	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1250	320	510	1	N/A	1, 5a
V-531K-07D H	5	330	AC	1	N/A	-40	125	Ld-Ld	-	1300	330	530	1	N/A	1, 5a
V-561K-07D H	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1380	350	560	1	N/A	1, 5a
V-621K-07D H	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1530	385	620	1	N/A	1, 5a
V-681K-07D H	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1670	420	680	1	N/A	1, 5a
V-751K-07D H	5	460	AC	1	N/A	-40	125	Ld-Ld	-	1840	460	750	1	N/A	1, 5a
"07D"															
V-101K-07D	5	60	AC	1	N/A	-40	85	Ld-Ld	-	250	60	100	0.5	N/A	1, 5a
V-121K-07D	5	75	AC	1	N/A	-40	85	Ld-Ld	-	300	75	120	0.5	N/A	1, 5a
V-151K-07D	5	95	AC	1	N/A	-40	85	Ld-Ld	-	370	95	150	0.5	N/A	1, 5a

V-181K-07D	5	115	AC	1	N/A	-40	85	Ld-Ld	-	430	115	180	0.5	N/A	1, 5a
V-201K-07D	5	130	AC	1	N/A	-40	85	Ld-Ld	-	470	130	200	0.5	N/A	1, 5a
V-221K-07D	5	140	AC	1	N/A	-40	85	Ld-Ld	-	500	140	220	0.5	N/A	1, 5a
V-241K-07D	5	150	AC	1	N/A	-40	85	Ld-Ld	-	540	150	240	0.5	N/A	1, 5a
V-271K-07D	5	175	AC	1	N/A	-40	85	Ld-Ld	-	630	175	270	0.5	N/A	1, 5a
V-301K-07D	5	190	AC	1	N/A	-40	85	Ld-Ld	-	680	190	300	0.5	N/A	1, 5a
V-331K-07D	5	210	AC	1	N/A	-40	85	Ld-Ld	-	750	210	330	0.5	N/A	1, 5a
V-361K-07D	5	230	AC	1	N/A	-40	85	Ld-Ld	-	820	230	360	0.5	N/A	1, 5a
V-391K-07D	5	250	AC	1	N/A	-40	85	Ld-Ld	-	890	250	390	0.5	N/A	1, 5a
V-431K-07D	5	275	AC	1	N/A	-40	85	Ld-Ld	-	970	275	430	0.5	N/A	1, 5a
V-471K-07D	5	300	AC	1	N/A	-40	85	Ld-Ld	-	1060	300	470	0.5	N/A	1, 5a
V-511K-07D	5	320	AC	1	N/A	-40	85	Ld-Ld	-	1140	320	510	0.5	N/A	1, 5a
V-531K-07D	5	330	AC	1	N/A	-40	85	Ld-Ld	-	1170	330	530	0.5	N/A	1, 5a
V-561K-07D	5	350	AC	1	N/A	-40	85	Ld-Ld	-	1250	350	560	0.5	N/A	1, 5a
V-621K-07D	5	385	AC	1	N/A	-40	85	Ld-Ld	-	1380	385	620	0.5	N/A	1, 5a
V-681K-07D	5	420	AC	1	N/A	-40	85	Ld-Ld	-	1520	420	680	0.5	N/A	1, 5a

V-751K-07D	5	460	AC	1	N/A	-40	85	Ld-Ld	-	1670	460	750	0.5	N/A	1, 5a
V-781K-07D	5	485	AC	1	N/A	-40	85	Ld-Ld	-	1760	485	780	0.5	N/A	1, 5a
V-820K-07D	5	50	AC	1	N/A	-40	85	Ld-Ld	-	220	50	82	0.5	N/A	1, 5a
V-821K-07D	5	510	AC	1	N/A	-40	85	Ld-Ld	-	1860	510	820	0.5	N/A	1, 5a
V-911K-07D	5	550	AC	1	N/A	-40	85	Ld-Ld	-	2010	550	910	0.5	N/A	1, 5a

Notes:

1. Suitable for Factory wiring only.
2. Suitable for Field and Factory wiring.
3. Series External Impedance required, see Electrical Ratings in the Recognition report.
4. Series External Overcurrent Protection required, see Electrical Ratings in the Recognition report.
5. Body of discrete component metal-oxide varistors (MOVs) flammability:
 - a) Min. V-0 or VTM-0.
 - b) Min. V-1 or VTM-1.
 - c) Complies with IEC 60950-1, Edition 2.2, Annex Q/IEC62368-1 Annex G.8.2 needle flame testing requirements.
 - d) Complies with IEC 60065, Edition 7.2, Annex G.1.1 needle flame testing requirements.

Marking: Company name or tradename "HW" or trademark , model designation and the Recognized Component Mark for

Canada, .

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