



## QVGQ2.E133083 Isolated Loop Circuit Protectors - Component

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#### LITTELFUSE/TECCOR

E133083

SUITE 500

8755 W HIGGINS RD

CHICAGO, IL 60631 USA

**Pedestal chip assemblies**, Model(s) CS220A, CS220B, CS300A, CS300B, CS350A

**Programmable Thyristor**, Model(s) B6NTCP2C, B6NTP2C, B9110DF (+)

**Transient voltage surge suppressors**, Model(s) PE2215CCRP, PE2220CCRP

**Transient voltage surge suppressors, battery tracking component type (Battrax in 8-pin package)**, Model(s) BN or BD, followed by 09, 10, 11, 12, 17, 20, 31, 32 or 37, followed by 0, 1, 2, 3 or 4, followed by 8 (SOIC 8-pin surface mount package), followed by A, B, C, D, E, F or G (surge current rating), may be followed by up to two alpha/numeric characters indicating packaging option, may be followed by L. Positive and negative tracking battery feed components.

**Transient voltage surge suppressors, battery tracking component type (Battrax in QFN package)**, Model(s) B, followed by 090, 110, 116, 120, 205, 310, 316 or 320, followed by 0, 1 or 4, followed by Q12, Q22 or Q38 (QFN two-leaded surface mount package), followed by A, B or C (surge current rating), followed by L, may be followed by up to two alpha/numeric characters indicating packaging option, may be followed by L. Positive and negative tracking battery feed components.

**Transient voltage surge suppressors, SIDACTor type**, Model(s) AO609CA (surface mount DO-214 package), may be followed by up to two alpha/numeric characters indicating packaging option, may be followed by L.

B1, B2, B3, B4, B5 or B6, followed by up to four digits, followed by CA, CB, CC, (surface mount modified DO-214 package), UA, UB or UC (six-pin MS-013 surface mount package), may be followed by up to four alpha/numeric characters, may be followed by L. Positive and negative tracking battery feed components.

P or MP, followed by 008, 022, 030, 045, 060, 064, 072, 080, 090, 099, 100, 110, 120, 130, 140, 150, 155, 160, 170, 180, 190, 200, 210, 220, 230, 235, 240, 250, 260, 270, 300, 305, 310, 320, 330, 340, 350, 360, 420, 450, 480, 510 or 600, 700, followed by 0, 1, 2 or 3, followed by AA, AB, AC, AD, AE (TO-220 package), BA, EA, EB, EC, EX (TO-92 package), SA, SB, SC, SD, SX, SF, CA, CA2, CB, CC (surface mount DO-214AA package), S1A, S1B (surface mount DO-214AC package), S3N (DO-214AB package), MD, ME (TO-218 package), NE, RE (TO 220 package) or VB (round cell), GA, GB, GC, GH, VEA, VEB (DO-15 package), TA, TB, TC, TH (DO-41 package), BA, BB, BC, BH (DO-201 package)

PLED, followed by 6, 9, 13, or 18, may be followed by U, followed by S, SW (DO 214 package) or Q12 (QFN package), may be followed by 2A or 3A, may be followed by suffix L

SDP or DSLP, followed by 008, 012, 018, 024 or 036 followed by 0, followed by TO23 (SOT23 package), followed by G5 or G6.

SEP, SDP, SEP or SOVP, followed by 008, 022, 030, 045, 060, 064, 072, 080, 090, 099, 100, 110, 120, 130, 140, 150, 155, 160, 170, 180, 190, 200, 210, 220, 230, 235, 240, 250, 260, 270, 300, 305, 310, 320, 330, 340, 350, 360, 420, 450, 480, 510 or 600, followed by 0, 1, 2 or 3, followed by A (TO-220 package), B (TO-92 package), C (surface mount DO-214 package), E (TO-92 package), M (TO-218 package), N (modified TO-220 package), Q38 (QFN 5x6 package), R (modified TO-220 package), S (surface mount DO-214 package) or V (round cell package); followed by A, B, C, D, E, F, G, H or X; followed by B or L.

SPH0004C (surface mount DO-214AA package), may be followed by up to two alpha/numeric characters indicating packaging option, may be followed by L.

**Transient voltage surge suppressors, SIDACTor type (asymmetrical parts)**, Model(s) A, followed by 02, 03, 06, 07, 09, 11, 12, 13, 14, 15, 16, 17, 18, 21, 23, 26, 31 or 50, followed by 02, 03, 06, 07, 09, 11, 12, 13, 14, 15, 18, 20, 21, 23, 25, 26, 30, 31 or 50, may be followed by A3, A4, SA, SB, SC, Q12, Q22, Q30, UA, UB, UC, U3, U4, Z3 or Z4, may be followed by up to two alpha/numeric characters indicating packaging option, may be followed by L.


**Transient voltage surge suppressors, SIDACTor type (QFN, 2-leaded SMT)**, Model(s) P, followed by 008, 022, 030, 064, 072, 090, 099, 100, 110, 120, 130, 150, 160, 170, 180, 190, 200, 210, 220, 230, 235, 240, 250, 260, 270, 300, 305, 310, 320, 330, 340, 350, 360, 420, 450, 480, 510 or 600, followed by 0, 2 or 3, followed by Q12 or Q22 (QFN two-leaded surface mount package), followed by A, B, F or C (surge current rating), followed by L, may be followed by up to two alpha/numeric characters indicating packaging option, may be followed by L.

**Transient voltage surge suppressors, SIDACTor type, eight-pin package**, Model(s) P or SD, followed by 008, 022, 030, 045, 060, 064, 072, 080, 090, 099, 100, 110, 120, 130, 140, 150, 155, 160, 170, 180, 190, 200, 210, 220, 230, 235, 240, 250, 260, 270, 300, 305, 310, 320, 330, 340, 350, 360, 420, 450, 480, 510 or 600 followed by 1, 2, 3, 4, 5 or 6, may be followed by V, D or Q, followed by A, B, C, D, F, G or H, may be followed by 1 to 9, may be followed by L.

**Transient voltage surge suppressors, SIDACTor type, six-pin package ( MS-013 surface mount)**, Model(s) P, followed by 008, 030, 045, 060, 064, 072, 080, 090, 099, 100, 110, 120, 130, 140, 150, 155, 160, 170, 180, 190, 200, 210, 220, 230, 235, 240, 250, 260, 270, 300, 305, 310, 320, 330, 340, 350, 360, 420, 450, 480, 510 or 600, followed by 1, 2, 3, 4, 5 or 6, followed by UA, UB or UC, may be followed by 2, 3, 4 or 6, may be followed by L.

(+) - These programmable components may experience a short circuit condition or voltage breakdown levels outside of their rated range if the components are placed in a circuit that is exposed to surge events greater than 1000 V.

Note - All part numbers may be prefixed by P, A, or B, followed by up to three numbers and one additional letter indicating specific customer options. All part numbers may be suffixed by additional suffixes indicating lead form options, packaging options, etc.

Marking: Company name, model designation, and the Recognized Component Mark,  .  
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