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## Isolated Loop Circuit Protectors - Component

### COMPANY

#### LITTELFUSE INC

8755 W Higgins Rd, Suite 500  
Chicago, IL 60631 United States

E128662

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

Note: For additional marking information, refer to the [Guide Information Page](#).

Model(s): LC03-3.3 , followed by B, may be followed by two letters indicating packaging options.

**Gas tubes**, Model(s): CG120Px, CG120Px, CG130Px, CG130Px, CG2145Px, CG2145Px, CG2180Px, CG2180Px, CG2230Px, CG2230Px, CG2250Px, CG2250Px, CG2300Px, CG2300Px, CG2350Px, CG2350Px, CG2400Px, CG2400Px, CG2470Px, CG2470Px, CG70Px, CG70Px, CG75Px, CG75Px, CG90Px, CG90Px, SL1002A075Px, SL1002A075Px, SL1002A090Px, SL1002A090Px, SL1002A145Px, SL1002A145Px, SL1002A230Px, SL1002A230Px, SL1002A250Px, SL1002A250Px, SL1002A300Px, SL1002A300Px, SL1002A350Px, SL1002A350Px, SL1002A400Px, SL1002A400Px, SL1002A470Px, SL1002A470Px, SL1010A075Px, SL1010A075Px, SL1010A090Px, SL1010A090Px, SL1010A120Px, SL1010A120Px, SL1010A150Px, SL1010A150Px, SL1010A200Px, SL1010A200Px, SL1010A230Px, SL1010A230Px, SL1010A250Px, SL1010A250Px, SL1010A300Px, SL1010A300Px, SL1010A350Px, SL1010A350Px, SL1010A400Px, SL1010A400Px, SL1010A420Px, SL1010A420Px, SL1010A470Px, SL1010A470Px, SL1010A600Px, SL1010A600Px, SL1021B075Px, SL1021B075Px, SL1021B090Px, SL1021B090Px, SL1021B145Px, SL1021B145Px, SL1021B200Px, SL1021B200Px, SL1021B230Px, SL1021B230Px, SL1021B250Px, SL1021B250Px, SL1021B260Px, SL1021B260Px, SL1021B300Px, SL1021B300Px, SL1021B350Px, SL1021B350Px, SL1021B400Px, SL1021B400Px, SL1021B420Px, SL1021B420Px, SL1021B470Px, SL1021B470Px, SL1411A070Px, SL1411A070Px, SL1411A075Px, SL1411A075Px, SL1411A090Px, SL1411A090Px, SL1411A120Px, SL1411A120Px, SL1411A130Px, SL1411A130Px, SL1411A145Px, SL1411A145Px, SL1411A230Px, SL1411A230Px, SL1411A250Px, SL1411A250Px, SL1411A300Px, SL1411A300Px, SL1411A350Px, SL1411A350Px, SL1411A400Px, SL1411A400Px, SL1411A470Px, SL1411A470Px

**Gas tubes, 2-electrode surface mount type**, Model(s): SE140 [+], SE200 [+], SE230 [+], SE350 [+], SE470 [+], SE500 [+], SG150 [+], SG230 [+], SG300 [+], SG300Q [+], SG350 [+], SG350Q [+], SG400 [+], SG420 [+], SG420Q [+], SG450Q [+], SG500Q [+], SG600Q [+], SG75 [+], SG90 [+]

**Gas tubes, 2-electrode type**, Model(s): CG2yyy [#], CG2yyyL [#], CG2yyyLS [#], CG2yyyMS [#], CG4230LE [+], CG4300LE [+], CG4300LEQ [+], CG4350LE [+], CG4350LEQ [+], CG4400LE [+], CG4450LE [+], CG4500LE [+], CG490LE [+], CG5xxxL [#], CG5xxxLS [#], CG5yyyMS [#], CGyyy [#], CGyyyL [#], CGyyyLS [#], CGyyyMS [#], SL0902AyyySM [#], SL1011A075 f/b A, E or N [+], SL1011A090 f/b A, E or N [+], SL1011A145 f/b A, E or N [+], SL1011A150 f/b A, E or N [+], SL1011A230 f/b A, E or N [+], SL1011A250 f/b A, E or N [+], SL1011A260 f/b A, E or N [+], SL1011A350 f/b A, E or N [+], SL1011A425 f/b A, E or N [+], SL1011A470 f/b A, E or N [+], SL1011A500 f/b A, E or N [+], SL1011A600 f/b A, E or N [+], SL1011ByyyA [#], SL1011ByyyC [#], SL1411AyyyA [#], SL1411AyyyC [#], SL1411AyyySM [#]

**Gas tubes, 3-electrode type**, Model(s): PMT3(310)yyy [#], PMT8yyy [#], PMT8yyy01 [#], PMT8yyy14 [#], SL1003AyyyC [#], SL1003AyyyR [#], SL1003AyyySM [#], SL1010A075 [+], SL1010A075SMF, SL1010A090 [+], SL1010A090SMF,

SL1010A150 [+], SL1010A150SMF, SL1010A170SMF, SL1010A230 [+], SL1010A230SMF, SL1010A300 [+], SL1010A300SMF, SL1010A350 [+], SL1010A350SMF, SL1010A420 [+], SL1010A420SMF, SL1010A470 [+], SL1010A470SMF, SL1021AyyyC [#], SL1021AyyyR [#], SL1021AyyyX [#], SL1021ByyyC [#], SL1021ByyyR [#], SL1021ByyyX [#], SL1024AyyyC [#], SL1024AyyyR [#], SL1024AyyyX [#], SL1024ByyyC [#], SL1024ByyyR [#], SL1024ByyyX [#], SL1122A180 [+], SL1122A230 [+], SL1122A250 [+], SL1122A260 [+], SL1122A300 [+], SL1122A350 [+], SL1122A420 [+], SL1122A90 [+]

**Gas tubes, 3-electrode type**, Model(s): SL1003A090R [+][+] = may be followed by suffixes to denote packaging, color code and customer requirements

**Gas tubes, 3-electrode type**, Model(s): SL1003A230R [+][+] = may be followed by suffixes to denote packaging, color code and customer requirements

**Gas tubes, 3-electrode type**, Model(s): SL1003A250R [+][+] = may be followed by suffixes to denote packaging, color code and customer requirements

**Gas tubes, 3-electrode type**, Model(s): SL1003A260R [+][+] = may be followed by suffixes to denote packaging, color code and customer requirements

**Gas tubes, 3-electrode type**, Model(s): SL1003A300R [+][+] = may be followed by suffixes to denote packaging, color code and customer requirements

**Gas tubes, 3-electrode type**, Model(s): SL1003A350R [+][+] = may be followed by suffixes to denote packaging, color code and customer requirements

**Gas tubes, 3-electrode type**, Model(s): SL1003A400R [+][+] = may be followed by suffixes to denote packaging, color code and customer requirements

**Gas tubes, 3-electrode type**, Model(s): SL1003A450R [+][+] = may be followed by suffixes to denote packaging, color code and customer requirements

**Gas tubes, 3-electrode type**, Model(s): SL1003A500R [+][+] = may be followed by suffixes to denote packaging, color code and customer requirements

**Gas tubes, axial type**, Model(s): CG5145Px, CG5145Px, CG5230Px, CG5230Px, CG5250Px, CG5250Px, CG5300Px, CG5300Px, CG5350Px, CG5350Px, CG5400Px, CG5400Px, CG5470Px, CG5470Px, CG5600Px, CG5600Px, CG575Px, CG575Px, CG590Px, CG590Px, CG6145Lx, CG6145Lx, CG6230Lx, CG6230Lx, CG6250Lx, CG6250Lx, CG6300Lx, CG6300Lx, CG6350Lx, CG6350Lx, CG6400Lx, CG6400Lx, CG6470Lx, CG6470Lx, CG6600Lx, CG6600Lx, CG675Lx, CG675Lx, CG690Lx, CG690Lx, CG7120Lx, CG7120Lx, CG7120Lx, CG7150Lx, CG7150Lx, CG7200Lx, CG7200Lx, CG7200Lx, CG7230Lx, CG7230Lx, CG7230Lx, CG7250Lx, CG7250Lx, CG7250Lx, CG7350Lx, CG7350Lx, CG7350Lx, CG7400Lx, CG7400Lx, CG7400Lx, CG790Lx, CG790Lx, CG790Lx

**Gas tubes, surface mount type**, Model(s): CG6145SMx, CG6145SMx, CG6230SMx, CG6230SMx, CG6250SMx, CG6250SMx, CG6300SMx, CG6300SMx, CG6350SMx, CG6350SMx, CG6400SMx, CG6400SMx, CG6470SMx, CG6470SMx, CG6600SMx, CG6600SMx, CG675SMx, CG675SMx, CG690SMx, CG690SMx, CG7120MSx, CG7120MSx, CG7120MSx, CG7150MSx, CG7150MSx, CG7150MSx, CG7200MSx, CG7200MSx, CG7200MSx, CG7230MSx, CG7230MSx, CG7230MSx, CG7250MSx, CG7250MSx, CG7250MSx, CG7350MSx, CG7350MSx, CG7350MSx, CG7400MSx, CG7400MSx, CG7400MSx, CG790MSx, CG790MSx, CG790MSx, SG120Px, SG120Px, SG150Px, SG150Px, SG200Px, SG200Px, SG230Px, SG230Px, SG300Px, SG300Px, SG350Px, SG350Px, SG400Px, SG400Px, SG420Px, SG420Px, SG470Px, SG470Px, SG500QPx, SG500QPx, SG600QPx, SG600QPx, SG75Px, SG75Px, SG90Px, SG90Px, SH145\*\*\*\*\*, SH145\*\*\*\*\*, SH230\*\*\*\*\*, SH230\*\*\*\*\*, SH250\*\*\*\*\*, SH250\*\*\*\*\*, SH300\*\*\*\*\*, SH300\*\*\*\*\*, SH350\*\*\*\*\*, SH350\*\*\*\*\*, SH400\*\*\*\*\*, SH400\*\*\*\*\*, SH470\*\*\*\*\*, SH470\*\*\*\*\*, SH600\*\*\*\*\*, SH600\*\*\*\*\*, SH75\*\*\*\*\*, SH75\*\*\*\*\*, SH90\*\*\*\*\*, SH90\*\*\*\*\*, SL0902A075Px, SL0902A075Px, SL0902A090Px, SL0902A090Px, SL0902A145Px, SL0902A145Px, SL0902A230Px, SL0902A230Px, SL0902A250Px, SL0902A250Px, SL0902A300Px, SL0902A300Px, SL0902A350Px, SL0902A350Px, SL0902A400Px, SL0902A400Px, SL0902A470Px, SL0902A470Px, SL0902A600Px, SL0902A600Px

**Gas tubes, surface mount types**, Model(s): SL1002A600SP

**Gas tubes, surface mount types**, Model(s): SL1002A, followed by 075, 090, 230, 250, 260, 300, 350, 450, 470 or 600, followed by SM or C.

**Gas tubes, with leads, 2-electrode type**, Model(s): SL1011A075C [+], SL1011A090C [+], SL1011A145C [+], SL1011A150C [+], SL1011A230C [+], SL1011A250C [+], SL1011A260C [+], SL1011A350C [+], SL1011A425C [+], SL1011A470C [+], SL1011A500C [+], SL1011A600C [+]

**Pill type thyristors**, Model(s): P-T070 (30v-350v), P-T080 (30v-350v), P-T100 (30v-350v), P-T100-xxx-003 (6v-315v)

**Sideac, axial type**, Model(s): MKP1V120, MKP1V130, MKP1V160, MKP1V240, MKP3V120, MKP3V240

**Thyristors, axial leads and disc types**, Model(s): CRXXX0-SA, CRXXX0-SB, CRXXX0-SC, CRXXX2-AA, CRXXX2-AB, CRXXX2-AC, CRXXX3-AA, CRXXX3-AB, CRXXX3-AC, T10A Series (50 A, 68v-270v), T10B Series (100 A, 68v-350v), T10C, T10L Series (100 A, 68v-350v), T10P Series (100 A, 68v-350v)

**Thyristors, surface mount**, Model(s): SMTBJ Series (50A, 75A or 100A, 50v-200v)

**Thyristors, surface mount, bidirectional type**, Model(s): SMT050, SMT100

**Transient Voltage Surge Suppressor, "SZ5KASMCxxAT3G"**, Model(s): SZ5KASMCxxAT3G where xx can be 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 22, 24, 26, 28, 30, 33, 36, 40, 43, 45, 48, 51, 54, 58, 60, 64, 70, 75, or 78.

**Transient Voltage Surge Suppressor, "SZ5KASMCxxCAT3G"**, Model(s): SZ5KASMCxxCAT3G where xx can be 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 22, 24, 26, 28, 30, 33, 36, or 40.

**Transient voltage surge suppressor, axial type, unidirectional and bidirectional devices**, Model(s): 1.5KE6.8 thru 1.5KE250, 1500W (2), P6KE6.8 thru P6KE200, 600W, SA5.0 thru SA170, 500W

**Transient Voltage Surge Suppressor, surface mount type**, Model(s): SZ3KASMCxxAT3G where xx can be 5.0, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 22, 24, 26, 28, 30, 33, 36, 40, 43, 45, 48, 51, 54, 58, 60, 64, 70, 75, or 78.

**Transient Voltage Surge Suppressor, surface mount type**, Model(s): SZ3KASMCxxCAT3G where xx can be 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 22, 24, 26, 28, 30, 33, 36, 40, 43, 45, 48, 51, 54, 58, 60, 64, 70, 75, or 78.

**Transient voltage surge suppressor, surface mount type, unidirectional and bidirectional devices, "1.5SMC Series"**, Model(s): 1.5SMC , followed by 6.8, 7.5, 8.2, 9.1, 10, 11, 12, 13, 15, 16, 18, 20, 22, 24, 27, 30, 33, 36, 39, 43, 47, 51, 56, 62, 68, 75, 82, or 91, followed by A. May be preceded by prefixes or followed by suffixes for customer requirements.

**TVS diode protection arrays**, Model(s): SP03-3.3#, SP03-6#, SP03-8#

**TVS Diode, "SMF4LxxAT1G"**, Model(s): SMF4L-AT1G where xx is 5.0, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 22, 24, 26, 28, 30, 33, 36, 40, 43, 45, 48, 51, 54, 58, 60, 64, 70, 75, or 78

**TVS Diode, "SZSMF4LxxA or SZSMF4LxxCA"**, Model(s): SZSMF4L where xx is 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 22, 24, 26, 28, 30, 33, 36, 40, 43, 45, 48, 51, 54, 58, 60, 64, 70, 75, or 78.

**TVS Diode, "SZSMF4LxxA"**, Model(s): SZSMF4L where xx is 5.0, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, or 9.0

**TVS diodes**, Model(s): 288KP170A

**TVS diodes**, Model(s): 1SMA , followed by 5.0, 6.0, 6.5, 8.0, 8.5, 9.0, 10, 11, 12, 13, 4, 15, 16, 17, 18, 20, 22, 24, 26, 28, 30, 33(3), 36(3), 40(3), 43(3), 45(3), 48(3), 54(3), 58(3), or 70(3), followed by AT3G. May be preceded by prefixes or followed by suffixes for customer requirements.

**TVS diodes**, Model(s): 1SMA, followed by 10, 12, 13, 15, 16, 18, 20, 24, 26, 28, 30, 33(3), 36(3), 40(3), 48(3), 58(3), 60(3), 70(3), or 78(3), followed by CAT3G. May be preceded by prefixes or followed by suffixes for customer requirements.

**TVS diodes**, Model(s): SMF , followed by 5.0, 6.0, 6.5, 7.0, 7.5, 8.0, 9.0, 10, 11, 12, 13, 14, 15(3), 18(3), 20(3), 22(3), 24(3), 26(3), 28(3), 30(3), 33(3), 36(3), 48(3), 51(3), or 58(3), followed by AT1G. May be preceded by prefixes or followed by suffixes for customer requirements.

**TVS diodes, unidirectional and bidirectional types**, Model(s): AK1, TPAK1, or LTKAK1, followed by -015C, -030C -058C, -066C, -076C, -086C, -150C, -170C, -208C, -220C, -240C -380C or -430C.@

**TVS diodes, unidirectional and bidirectional types**, Model(s): AK10, TPAK10, or LTKAK10 , followed by -015C, -030C, -058C, -066C, -076C, -086C, -150C, -170C, -190C (NTI 200), -208C, -220C, -240C, -380C (NTI 422), -430C (NTI 470)or -530C.@

**TVS diodes, unidirectional and bidirectional types**, Model(s): AK15, TPAK15, or LTKAK15, followed by -058C, -066C, -076C, -086C, -190C, -380C, or -430C.@

**TVS diodes, unidirectional and bidirectional types**, Model(s): AK20 followed by -016C, -058C, -063C, -066C, -076C, 150C, -170C, -190C, -208C, -220C, -240C, -380C, or -430C.@

**TVS diodes, unidirectional and bidirectional types**, Model(s): AK3, TPAK3, LTKAK3 or SMTAK3, followed by -015C, -030C, -058C, -066C, -076C, -086C, -150C, -170C, -190C, -208C, -220C, -240C -380C or -430C.@

**TVS diodes, unidirectional and bidirectional types**, Model(s): AK6, TPAK6, or LTKAK6 , followed by -015C, -030C, -058C, -066A, -066C, -066CL, -076C, -076CL, -086C, -150C, -170C, -190C, -208C, -220C, -240C, -380C or -430C.@

**Zener transient voltage suppressors, surface mount type, unidirectional and bidirectional devices, "1SMB Series"**, Model(s): 1SMB followed by 5.0, 6.0A, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 22, 24, 26, 28, 30, 33, 36, 40, 43, 45, 48, 51, 54, 58, 60, 64, 70, 75, 78, 85, 90, 100, 110, 120, 130, 150, 160, or 170, followed by A. May be preceded by prefixes or followed by suffixes for customer requirements.

**Zener transient voltage suppressors, surface mount type, unidirectional and bidirectional devices, "1SMC Series"**, Model(s): 1SMC , followed by 5.0, 6.0, 6.5, 7.0, 7.5, 8.0 ,8.5, 9.0, 10 ,11, 12, 13, 14, 15, 16, 17, 18, 20, 22, 24, 26, 28, 30, 33, 36, 40, 43, 45, 48, 51, 54, 58, 60, 64, 70, 75, or 78, followed by A. May be preceded by prefixes or followed by suffixes for customer requirements.

**Zener transient voltage suppressors, surface mount type, unidirectional and bidirectional devices, "P6SMB Series"**, Model(s): P6SMB followed by 6.8, 7.5, 8.2, 9.1, 10, 11, 12, 13, 15, 16, 18, 20, 22, 24, 27, 30, 33, 36, 39, 43, 47, 51, 56, 62, 68, 75, 82, 91, 100, 110, 120, 130, 150, 160, 170, 180, or 200, followed by A. May be preceded by prefixes or followed by suffixes for customer requirements.

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