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## Electrically Isolated Semiconductor Devices Component

COMPANY<br>TAIWAN SEMICONDUCTOR CO LTD<br>11TH FL<br>205 BEISHIN RD, SEC 3<br>SHINDIAN, 231 Taiwan

Marking: Company name or tradename "UPC", or trademark 4 , and model designation.
Note: For additional marking information, refer to the Guide Information Page.

Model(s): P6KE6V8A, P6KE6V8CA, P6KE7V5A, P6KE7V5CA, P6KE8V2A, P6KE8V2CA, P6KE9V1A, P6KE9V1CA

Model(s): 1V5KE Series followed by 2 to 3 digits, may be followed by a letter "A" or C or CA.

Bridge Rectifier, Model(s): GBU15L05, GBU15L06, GBU25L05

Bridge rectifier semiconductors, Model(s): TS10K100, TS10K40, TS10K60, TS10K80, TS10P01G, TS10P02G, TS10P03G, TS10P04G, TS10P05G, TS10P06G, TS10P07G, TS15P01G, TS15P01GS, TS15P02G, TS15P02GS, TS15P03G, TS15P03GS, TS15P04G, TS15P04GS, TS15P05G, TS15P05GS, TS15P06G, TS15P06GS, TS15P07G, TS15P07GS, TS15PL05G, TS15PL06G, TS20P01G, TS20P02G, TS20P03G, TS20P04G, TS20P05G, TS20P06G, TS20P07G, TS25P01G, TS25P01GS, TS25P02G, TS25P02GS, TS25P03G, TS25P03GS, TS25P04G, TS25P04GS, TS25P05G, TS25P05GS, TS25P06G, TS25P06GS, TS25P07G, TS25P07GS, TS25PL05G, TS25PL06G, TS35P05G, TS35P06G, TS35P07G, TS40P05G, TS40P06G, TS40P07G, TS45PL05G, TS4K100, TS4K40, TS4K60, TS4K80, TS50P05G, TS50P06G, TS50P07G, TS6K100, TS6K40, TS6K60, TS6K80, TS6P01G, TS6P02G, TS6P03G, TS6P04G, TS6P05G, TS6P06G, TS6P07G, TS8P01G, TS8P02G, TS8P03G, TS8P04G, TS8P05G, TS8P06G, TS8P07G, W005M, W01M, W02M, W04M, W06M, W08M, W10M

Bridge rectifier semiconductors, Model(s): TSXB Series where $X$ represents the number 4, 6, 8 or 10, may be proceeded by an F, followed by 01-07, may be followed by G

Bridge Rectifier Semiconductors, Model(s): 3PGBPC Series followed by $25,35,45$, followed by $06,08,10$, $12,14,16$, may be followed by additional letters and/or numbers.

Bridge Rectifier Semiconductors, Model(s): GBPC40 followed by $005,01,02,04$ or 06 , followed by W .
Bridge rectifier semiconductors, "D2SBAXX Series", Model(s): D2SBA05, D2SBA10, D2SBA20, D2SBA40, D2SBA60, D2SBA80

Bridge rectifier semiconductors, "D2SBXX Series", Model(s): D2SB05, D2SB10, D2SB20, D2SB40, D2SB60, D2SB80

Bridge rectifier semiconductors, "GBL Series", Model(s): GBL005, GBL01, GBL02, GBL04, GBL06, GBL08, GBL10, GBL201, GBL202, GBL203, GBL204, GBL205, GBL206, GBL207

Bridge rectifier semiconductors, "GBLA Series", Model(s): GBLA005, GBLA01, GBLA02, GBLA04, GBLA06, GBLA08, GBLA10

Bridge rectifier semiconductors, "GBPC Series", Model(s): FGBPC15xxx*, FGBPC15xxxM*, FGBPC15xxxW*, FGBPC25xxx*, FGBPC25xxxM*, FGBPC25xxxW*, FGBPC $35 x x x^{*}$, FGBPC35xxxM*, FGBPC35xxxW*, FGBPC40xxx*, FGBPC40xxxM*, FGBPC50xxx*, FGBPC50xxxM*, GBPC15xxx*, GBPC15xxxM*, GBPC15xxxW*, GBPC25xxx*, GBPC25xxxM*, GBPC25xxxW*, GBPC35xxx*, GBPC35xxxM*, GBPC35xxxW*, GBPC40xxx*, GBPC40xxxM*, GBPC50xxx*, GBPC50xxxM*

Bridge rectifier semiconductors, "GBUXXX Series", Model(s): GBU1001, GBU1002, GBU1003, GBU1004, GBU1005, GBU1006, GBU1007, GBU401, GBU402, GBU403, GBU404, GBU405, GBU406, GBU407, GBU601, GBU602, GBU603, GBU604, GBU605, GBU606, GBU607, GBU801, GBU802, GBU803, GBU804, GBU805, GBU806, GBU807

Bridge Rectifier Semiconductors, "KBJL Series", Model(s): TS10KL100, TS10KL60, TS10KL80, TS4KL100, TS4KL60, TS4KL80, TS6KL100, TS6KL60, TS6KL80, TS8KL100, TS8KL60, TS8KL80

Bridge rectifier semiconductors, "KBP Series", Model(s): FKBP30XG *, KBP30XG*
Bridge Rectifier Semiconductors, "KBP Series", Model(s): FKBP followed by 101-107, 151-157, 201-207, may be followed by G.

Bridge Rectifier Semiconductors, "KBP Series", Model(s): KBP followed by 101-107, 151-157, 201-207, may be followed by G .

Bridge rectifier semiconductors, "MBSXX Series", Model(s): MBS10, MBS12, MBS2, MBS4, MBS6, MBS8
Bridge rectifier semiconductors, "RMBXS Series", Model(s): RMB2S, RMB4S, RMB6S
Bridge rectifier semiconductors, "TSS4B Series", Model(s): TSS4B01, TSS4B01G, TSS4B02, TSS4B02G, TSS4B03, TSS4B03G, TSS4B04, TSS4B04G

Bridge Rectifier Semiconductors, DB Series, Model(s): DBXXX, DBSXXX, HDB10X where X represents a digit, may contain an $F$ prefix and may contain a $G$ or $S$ suffix.

Bridge rectifiers, Model(s): KBU1001G, KBU1002G, KBU1003G, KBU1004G, KBU1005G, KBU1006G, KBU1007G, KBU401G, KBU402G, KBU403G, KBU404G, KBU405G, KBU406G, KBU407G, KBU601G, KBU602G,

KBU603G, KBU604G, KBU605G, KBU606G, KBU607G, KBU801G, KBU802G, KBU803G, KBU804G, KBU805G, KBU806G, KBU807G
Bridge Rectifiers, "KBL Series", Model(s): KBL401G, KBL402G, KBL403G, KBL404G, KBL405G, KBL406G, KBL407G, KBL601G, KBL602G, KBL603G, KBL604G, KBL605G, KBL606G, KBL607G

Bridge Rectifiers, Package Code 4KBJ, Model(s): TS10K40-A, TS10K60-A, TS10K80-A, TS20K100-T, TS20K40-T, TS20K60-T, TS20K80-T, TS4K40-A, TS4K60-A, TS4K80-A, TS6K40-T, TS6K60-T, TS6K80-T

Bridge Rectifiers, Package Code 6KBJ, Model(s): TS15P05G-K, TS15P06G-K, TS15P07G-K, TS25P05G-K, TS25P06G-K, TS25P07G-K, TS6P01G-K, TS6P02G-K, TS6P03G-K, TS6P04G-K, TS6P05G-K, TS6P06G-K, TS6P07G-K

Electrically isolated semiconductor devices, Model(s): MBRF16H45, UF5JFC, UR2KB100, UR2KB60, UR2KB80, UR3KB100, UR3KB60, UR3KB80, UR4KB100-B, UR4KB60-B, UR4KB80-B

Electrically Isolated Semiconductor Devices, Model(s): TSM600NA25CIT, UGF10L08G, UGF10L08GA, UR8KB100, UR8KB60, UR8KB80

Electrically Isolated Semiconductor Devices, "Bridge rectifiers, "TO-3P Series" ", Model(s): UG2004PT, UG6005PT

Electrically isolated semiconductor devices, "ITO-220AB Series", Model(s): FRF100XG*, FRF160XG*, FRF50XG*, HERF1007GA, HERF1008GA, HERF100XG*, HERF160XG*, MBRF10HXX0CT*, MBRF10L100CT*, MBRF10XXXCT*, MBRF15XXXCT*, MBRF20HXX0CT*, MBRF20L1X0CT*, MBRF25XXXCT*, MBRF30L120CT*, MBRF30L45CT*, MBRF8XXXCT*, MURF16X0CT*, SBRF10XX0CT*, SBRF20XXXCT*, SFF100XG*, SFF160XG*, SFF200XG*, SFF50XG*, SRF16XXX*, SRF20XXX*

Electrically isolated semiconductor devices, "ITO-220AB Series", Model(s): MBRF10 followed by 100, 150 or 200 , followed by D.

Electrically isolated semiconductor devices, "ITO-220AB Series", Model(s): MBRF20 followed by 35, 45, $50,60,80,90,100,150$ or 200, followed by CT.

Electrically isolated semiconductor devices, "ITO-220AB Series", Model(s): MBRF30 followed by 35, 45, $50,60,80,90,100$ or 150 , followed by CT.

Electrically isolated semiconductor devices, "ITO-220AB Series", Model(s): SFF100 followed by 1, 2, 3, 4, $5,6,7$ or 8 , followed by GA.

Electrically isolated semiconductor devices, "ITO-220AB Series", Model(s): SFF10L0 followed by 4, 5, 6 or 8 , followed by G or GA.

Electrically isolated semiconductor devices, "ITO-220AB Series", Model(s): SFF200 followed by 4, 5, 6 or 8 , followed by GA.

Electrically isolated semiconductor devices, "ITO-220AB Series", Model(s): SRF10 followed by 20, 30, 40, $50,60,90,100,150$ or 200 , maybe followed by D.

Electrically isolated semiconductor devices, "ITO-220AC Series", Model(s): FRAF100XG*, FRAF160XG*, FRAF80XG*, HERAF100XG*, HERAF160XG*, HERAF80XG*, MBRF10XXX*, MBRF16XXX*, MBRF20XXX*, MBRF7XXX*, SFAF100XG*, SFAF160XG*, SFAF200XG*, SFAF50XG*, SFAF80XG*, SRAF10XXX*, SRAF16XXX*, SRAF5XXX*, SRAF8XXX*

Electrically Isolated Semiconductor Devices, Bridge Rectifiers, Package Code GBU, Model(s): GBU1005K, GBU1006-K, GBU1007-K, GBU1505, GBU1506, GBU1507, GBU2504, GBU2504, GBU2505, GBU2505, GBU2506, GBU2506, GBU2507, GBU2507, GBU404-K, GBU404-K, GBU405-K, GBU405-K, GBU406-K, GBU406-K, GBU407-K, GBU407-K, GBU604-K, GBU604-K, GBU605-K, GBU605-K, GBU606-K, GBU606-K, GBU607-K, GBU607-K, GBU804-K, GBU804-K, GBU805-K, GBU805-K, GBU806-K, GBU806-K, GBU807-K, GBU807-K

Power Switching Semiconductors, Model(s): MBRF10HXX0CT, MBRF20HXX0CT, UGF1004G, UGF1004GA, UGF1005G, UGF1005GA, UGF1006G, UGF1006GA, UGF1007G, UGF1007GA, UGF1008G, UGF1008GA, UGF10G, UGF10J, UGF12G, UGF12J, UGF1604G, UGF1604GA, UGF1605G, UGF1605GA, UGF1606G, UGF1606GA, UGF1607G, UGF1607GA, UGF1608G, UGF1608GA, UGF2004G, UGF2005G, UGF2006G, UGF2007G, UGF2008G, UGF5G, UGF5J, UGF8G, UGF8J, UGF8JD

Power Switching Semi-Conductors, Model(s): KBP101G, KBP102G, KBP103G, KBP104G, KBP105G, KBP106G, KBP107G, KBP151G, KBP152G, KBP153G, KBP154G, KBP155G, KBP156G, KBP157G, KBP201G, KBP202G, KBP203G, KBP204G, KBP205G, KBP206G, KBP207G, KBP301G, KBP302G, KBP303G, KBP304G, KBP305G, KBP306G, KBP307G, KBPF204G, KBPF205G, KBPF206G, KBPF207G, KBPF304G, KBPF305G, KBPF306G, KBPF307G, KBPF404G, KBPF405G, KBPF406G, KBPF407G, T10JA05G-K, T10JA06G-K, T10JA07G-K, T15JA05G-K, T15JA06G-K, T15JA07G-K, T25JA05G-K, T25JA06G-K, T25JA07G-K

Power Switching Semiconductors, "EGF Series", Model(s): EGF1A, EGF1B, EGF1C, EGF1D, EGF1G, EGF1J, EGF1K, EGF1M

Power Switching Semiconductors, "ES Series", Model(s): ES1A, ES1B, ES1C, ES1D, ES1F, ES1G, ES1H, ES1J, ES2AA, ES2BA, ES2CA, ES2DA, ES2FA, ES2GA, ES2HA, ES2JA

Power Switching Semiconductors, "ES2 Series", Model(s): ES2A, ES2B, ES2C, ES2D, ES2F, ES2G, ES2H, ES2J

Power Switching Semiconductors, "ES3 Series", Model(s): ES3A, ES3B, ES3C, ES3D, ES3F, ES3G, ES3H, ES3J

Power Switching Semiconductors, "HS Series", Model(s): HS1A, HS1B, HS1D, HS1F, HS1G, HS1J, HS1K, HS1M, HS2AA, HS2BA, HS2DA, HS2FA, HS2GA, HS2JA, HS2KA, HS2MA

Power Switching Semiconductors, "HS2 Series", Model(s): HS2A, HS2B, HS2D, HS2F, HS2G, HS2J, HS2K, HS2M

Power Switching Semiconductors, "HS3 Series", Model(s): HS3A, HS3B, HS3D, HS3F, HS3G, HS3J, HS3K, HS3M

Power Switching Semiconductors, "HS5 Series", Model(s): HS5A, HS5B, HS5D, HS5F, HS5G, HS5J, HS5K, HS5M

Power Switching Semiconductors, "RS1 Series", Model(s): RS1A, RS1B, RS1D, RS1G, RS1J, RS1K, RS1M
Power Switching Semiconductors, "RS2 Series", Model(s): RS2A, RS2B, RS2D, RS2G, RS2J, RS2K, RS2M
Power Switching Semiconductors, "RS3 Series", Model(s): RS3A, RS3B, RS3D, RS3G, RS3J, RS3K, RS3M
Power Switching Semiconductors, "S1 Series", Model(s): S1A, S1AB, S1AL, S1B, S1BB, S1BL, S1D, S1DB, S1DL, S1G, S1GL, S1J, S1JB, S1JL, S1K, S1KB, S1KL, S1M, S1MB

Power Switching Semiconductors, "S2 Series", Model(s): S1ML, S2A, S2AA, S2B, S2BA, S2D, S2DA, S2G, S2GA, S2J, S2JA, S2K, S2KA, S2M, S2MA

Power Switching Semiconductors, "S3 Series", Model(s): S3A, S3AB, S3B, S3BB, S3D, S3DB, S3G, S3GB, S3J, S3JB, S3K, S3KB, S3M, S3MB

Power Switching Semiconductors, "S4 Series", Model(s): S4A, S4B, S4D, S4G, S4J, S4K, S4M
Power Switching Semiconductors, "S5 Series", Model(s): S5A, S5B, S5D, S5G, S5J, S5K, S5M
Power Switching Semiconductors, "S6 Series", Model(s): S6A, S6B, S6D, S6G, S6J, S6K, S6M
Power Switching Semi-Conductors, "SK Series", Model(s): SK followed by 12 thru 16, 110, 32 thru 36, 39, 310, 52 thru 56, 59 or 510, may be followed by B.

Power Switching Semiconductors, "SK2 Series", Model(s): SK210, SK210A, SK22, SK22A, SK23, SK23A, SK24, SK24A, SK25, SK25A, SK26, SK26A, SK29, SK29A

Power Switching Semiconductors, "SK3 Series", Model(s): SK310, SK310A, SK32, SK32A, SK33, SK33A, SK34, SK34A, SK35, SK35A, SK36, SK36A, SK39, SK39A

Power Switching Semiconductors, "SK5 Series", Model(s): SK53, SK53C, SK54, SK54C, SK56, SK56C
Power Switching Semiconductors, "SK8 Series", Model(s): SK82, SK82C, SK83, SK83C, SK84, SK84C, SK85, SK85C, SK86, SK86C

Power Switching Semiconductors, "SKL Series", Model(s): SKL22, SKL22A, SKL24, SKL24A, SKL32, SKL32A, SKL34, SKL34A, SKLL22, SKLL22A, SKLL24, SKLL24A, SKLL32, SKLL32A, SKLL34, SKLL34A

Power Switching Semiconductors, "SL Series", Model(s): SL22, SL22A, SL24, SL24A, SL32, SL32A, SL34A, SLL22, SLL22A, SLL24, SLL24A, SLL32, SLL32A, SLL34, SLL34A

Power Switching Semiconductors, "SS1 Series", Model(s): SS110, SS12, SS13, SS14, SS15, SS16, SS19
Power Switching Semiconductors, "SS2 Series", Model(s): SS210, SS22, SS23, SS24, SS25, SS26, SS29
Power Switching Semiconductors, "SS3 Series", Model(s): SS310, SS32, SS33, SS34, SS35, SS36, SS39
Power Switching Semiconductors, "SSL1 Series", Model(s): SSL12, SSL13, SSL14
Power Switching Semiconductors, "SSL2 Series", Model(s): SSL22, SSL23, SSL24
Power Switching Semiconductors, "SSL3 Series", Model(s): SSL32, SSL33, SSL34
Power Switching Semiconductors, "TO-220 Series", Model(s): FR10XXG*, FR10XXGG*, FR16XX*, FR16XXG*, FRA100X*, FRA100XG*, FRA16XX*, FRA16XXG*, FRA8XX*, FRA8XXG*, GP10XX*, GP10XXG*, GP16XX*, GP16XXG*, GP8XX*, GP8XXG*, GPA16XX*, GPA16XXG*, GPA8XX*, GPA8XXG*, HER10XX*, HER10XXG*, HER16XX*, HER16XXG*, HER8XX*, HER8XXG*, HERA16XX*, HERA16XXG*, HERA8XX*, HERA8XXG*, MBR10HXXXCT*, MBR10HXXXCTG*, MBR10LXXX*, MBR10LXXXCT*, MBR10XXX*, MBR10XXXCT*, MBR10XXXCTG*, MBR10XXXG*, MBR15XXXCT*, MBR15XXXCTG*, MBR16XXX*, MBR16XXXG*, MBR20HXXXCT*, MBR20HXXXCTG*, MBR20LXXX*, MBR20LXXXCT*, MBR20XXXCT*, MBR20XXXCTG*, MBR25XXXCT*, MBR25XXXCTG*, MBR30HXXX*, MBR30HXXXCT*, MBR30LXXX*, MBR30LXXXCT*, MBR30XXXCT*, MBR30XXXCTG*, MBR7XXX*, MBR7XXXG*, MUR16XXCT*, MUR16XXCTG*,

MUR8XX*, MUR8XXG*, SBR10XXXCT*, SBR10XXXCTG*, SBR20XXXCT*, SBR20XXXCTG*, SF10XX*, SF10XXG*, SF16XX*, SF16XXG*, SF20XX*, SF20XXG*, SF8XX*, SF8XXG*, SFA10XXG*, SFA10XXGG*, SFA16XX*, SFA16XXG*, SFA8XX*, SFA8XXG*, SR10XX*, SR10XXG*, SR16XX*, SR16XXG*, SR20XX*, SR20XXG*, SR8XX*, SR8XXG*, SRA10XX*, SRA10XXG*, SRA16XX*, SRA16XXG*, SRA20XX*, SRA20XXG*, SRA8XX*, SRA8XXG*, UGXJ*, UGXJCT*
Power Switching Semiconductors, "TO-3P Series", Model(s): HER16XXPT*, HER20XXPT*, HER30XXPT*, MBR20XXXPT*, MBR30XXXPT*, MBR40XXXPT*, MBR60XXXPT*, SF16XXPT*, SF20XXPT*, SF30XXPT*, SR16XXPT*, SR20XXPT*, SR2XXXPT*, SR30XXPT*, SR40XXPT*, SR50XXPT*

Power Switching Semiconductors, "US Series", Model(s): US1A, US1B, US1D, US1G, US1J, US1K, US1M

Power Switching SemiconductorsV, "SL Series", Model(s): SL34
Transient Voltage Suppressor Diode, Model(s): 1.5KE Series followed by 2 to 3 digits, may be followed by a letter "A" or C or CA.

Transient Voltage Suppressor Diode, Model(s): P4KE Series followed by 2 to 3 digits, may be followed by a letter "A" or C or CA.

Transient Voltage Suppressor Diode, Model(s): P6KE Series followed by 2 to 3 digits, may be followed by a letter "A" or C or CA.

Transient Voltage Suppressor Diode, "1.5SMC Series", Model(s): 1.5 SMC 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, may be followed by blank, A, C or CA (1500W, Voltage range: 6.8 to 200 V

Transient Voltage Suppressor Diode, "3.0SMC Series", Model(s): 3.0SMC followed by 5.0, 6.0, 6.5, 7.0, $7.5,8.0,8.5,9.0,10$ thru $18,20,22,24,26,28,30,33,36,40,43,45,48,51,54,58,60,64,70,75,78,85,90$, $100,110,120,130,150,160$ or 170 , may be followed by blank, A, C or CA (3000W, Voltage range

Transient Voltage Suppressor Diode, "P4SMA Series", Model(s): P4SMA 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, may be followed by blank, A, C or CA (400W, Voltage Range: 6.8 to 200) .

Transient Voltage Suppressor Diode, "P6SMB Series", Model(s): P6SMB followed by 6.8, 7.5, 8.2, 9.1, 10, $11,12,13,15,16,18,20,22,24,27,30,33,36,39,43,47,51,56,62,68,75,82,91,100,110,120,130,150$, $160,170,180,200$ or 220 , may be followed by blank, A, C or CA ( 600 W , Voltage Range: 6.8 to 20

Transient Voltage Suppressor Diode, "SMAJ Series", Model(s): SMAJ followed by 5.0, 6.0, 6.5, 7.0, 7.5, $8.0,8.5,9.0,10$ thru $18,20,22,24,26,28,30,33,36,40,43,45,48,51,54,58,60,64,70,75,78,85,90,100$, $110,120,130,150,160$ or 170, may be followed by blank, A, C or CA

Transient Voltage Suppressor Diode, "SMBJ Series", Model(s): SMBJ followed by 5.0, 6.0, 6.5, 7.0, 7.5, 8.0, $8.5,9.0,5 \mathrm{~V} 0,6 \mathrm{~V} 0,6 \mathrm{~V} 5,7 \mathrm{~V} 0,7 \mathrm{~V} 5,8 \mathrm{~V}, 8 \mathrm{~V} 5,9 \mathrm{~V} 0,10$ thru $18,20,22,24,26,28,30,33,36,40,43,45,48,51$, $54,58,60,64,70,75,78,85,90,100,110,120,130,150,160$ or 170 , may be followed by blank, A, C or CA.

Transient Voltage Suppressor Diode, "SMCJ Series", Model(s): SMCJ followed by 5.0, 6.0, 6.5, 7.0, 7.5, 8.0, $8.5,9.0,5 \mathrm{~V} 0,6 \mathrm{~V} 0,6 \mathrm{~V} 5,7 \mathrm{~V}, 7 \mathrm{~V} 5,8 \mathrm{~V} 0,8 \mathrm{~V} 5,9 \mathrm{~V} 0,10$ thru $18,20,22,24,26,28,30,33,36,40,43,45,48,51$, $54,58,60,64,70,75,78,85,90,100,110,120,130,150,160$ or 170 , may be followed by blank, A, C or CA (1500W, Voltage Range:

Zener Diode, "1SMA Series", Model(s): 1SMA followed by 4741 thru 4764, 110Z, 120Z, 130Z, 150Z, 160Z, 180Z, 200Z or 5926 thru 5945.

*     - Where $X$ represents a digit.
* 

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