



INITIAL PRODUCT/PROCESS CHANGE NOTIFICATION
Generic Copy

29 Apr 2009

SUBJECT: ON Semiconductor Initial Product/Process Change Notification #16250

TITLE: Initial Notification of Transfer of EMI Filters, Bidirectional ESD Diodes, Bipolar Power, Bidirectional TVS (Transient Voltage Suppressor) Diodes, TVS (Transient Voltage Suppressor) Arrays, Small Signal Schottky, Ultrafast Rectifier and Thyristor Surge Protection Devices (TSPD) products from ON Semiconductor ZR Fab in Phoenix (USA) to ON Semiconductor ISMF Fab in Seremban (Malaysia)

PROPOSED FIRST SHIP DATE: 29 Aug 2009

AFFECTED CHANGE CATEGORY(S): ON Semiconductor Fab Site

AFFECTED PRODUCT DIVISION(S): Various Discrete Business Units

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office or following Contact Product Engineers:

IPCN Contact person by Affected Technology:

Bipolar Power	Farrah Awang	farrah.omar@onsemi.com
Small Signal Schottky	Masitah Aznam	masitah.aznam@onsemi.com
Bidirectional TVS Diodes	Yew Hee Soon	y.soon@onsemi.com
EMI Filters	Eben Lim	eben.lim@onsemi.com
Thyristor (TSPD)	Suei Huey Wong	SueiHuey.Wong@onsemi.com
TVS Arrays	Eben Lim	eben.lim@onsemi.com
Bidirectional ESD Diodes	Yew Hee Soon	y.soon@onsemi.com
Ultrafast Rectifiers	Raja Roziah	Raja.Roziah.Rahmat@onsemi.com

NOTIFICATION TYPE:

Initial Product/Process Change Notification (IPCN)

First change notification sent to customers. IPCNs are issued at least 120 days prior to implementation of the change. An IPCN is advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan.

The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN).

This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change.

**Initial Product/Process Change Notification #16250****DESCRIPTION AND PURPOSE:**

This is the initial notification announcing that ON Semiconductor is notifying customers of its plan to transfer Wafer FAB of EMI Filters, Bidirectional ESD Diodes, Bipolar Power, Bidirectional TVS (Transient Voltage Suppressor) Diodes, TVS Arrays, Small Signal Schottky, Ultrafast Rectifier and Thyristor Surge Protection Devices (TSPD) products from ON Semiconductor ZR Fab in Phoenix (USA) to ON Semiconductor ISMF FAB in Seremban (Malaysia).

The ISMF facility is an ON Semiconductor owned wafer fab that has been producing products for ON Semiconductor since 1998. Several existing technologies within ON Semiconductor's product families are currently sourced from ISMF, including Zener Diodes, Small Signal Diodes, Small Signal Transistor, and USB array filter products. ON Semiconductor Seremban Wafer FAB is an internal factory that is TS16949, ISO-9001 and ISO-14000 certified.

Qualification tests are designed to show that the reliability of transferred devices will continue to meet or exceed ON Semiconductor standards.

QUALIFICATION PLAN:

Test:	Condition:	Interval:	Samples Size: (Units x Lots)
TC + PC	T= -65C to 150C TA=25C, TJ = 100C Ton=Toff=	1000 cyc	77 x 4
IOL + PC	dependent on pkg	1008 hrs	77 x 4
H3TRB + PC	T=85C/ 85% RH/ 80% Rated Voltage	1008 hrs	77 x 4
HTSL	TA=150C	1008 hrs	77 x 4
HTRB	TA=150C, 80% Rated Voltage	1008 hrs	77 x 4
AC + PC	T=121C/ 100% RH/ 15 psig	96 hrs	77 x 4
DPA	Per AECQ101, after TC and H3TRB		

Qualification Vehicles:

Qualification vehicles have been carefully selected to address all critical variables and interactions of wafer design features, process considerations, mechanical construction and electrical characteristics

EMI FILTERS:

NUF2441G
NUF2114G
NUF2900G
NUF2450G

BIDIRECTIONAL ESD DIODES:

NUP4102XV6T1G
ESD5B5.0ST1G
ESD11B5.0SMT5G



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BIPOLAR POWER:

MJD340
MJE5852
MJE18008
MJD122
MJD42C
MJ21194
MJ21193

BIDIRECTIONAL TVS DIODES:

1SMB36CAT3G
1SMB75CAT3G

TVS ARRAY:

NUP4201DR2G

SMALL SIGNAL SCHOTTKYS:

RB521S30T1G
BAT54LT1G
NSR017P2T5G

ULTRAFAST RECTIFIER DEVICES:

MUR1620CTRG
MUR8100E
MURS360T3G
MSR1560R
MUR4100EG
MUR1660CTG

THYRISTOR SURGE PROTECTION DEVICES (TSPD):

NYE6TPG
NP1500SCMCT3G
NP0120TAT1G



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AFFECTED DEVICE LIST FOR EMI FILTERS:

PARTS:

NUF2114MNT1G
NUF2116MNT1G
NUF2441FCT1G
NUF2450MUT2G
NUF2900MNT1G

AFFECTED DEVICE LIST FOR BIDIRECTIONAL ESD DIODES:

PARTS:

ESD5B5.0ST1G
ESD9B3.3ST5G
ESD9B5.0ST5G
NUP4004M5T1G
NUP4102XV6T1G
SD12CT1G
ESD11B5.0SMT5G

AFFECTED DEVICE LIST BIPOLAR POWER:

PARTS:

2N3055
2N3055A
2N3055AG
2N3055G
2N3442G
2N3771
2N3771G
2N3771G
2N3772
2N3772G
2N3772G
2N3773
2N3773G
2N3773G
2N4918G
2N4919G
2N4920
2N4920G
2N4921G
2N4922
2N4922G
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BD139G
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BD680G
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BD788G
BD809G
BD810
BD810G
BDV64B
BDV64BG
BDV65BG
BDW42



BDW42G
BDW46G
BDW47
BDW47G
BDX33BG
BDX33C
BDX33CG
BDX34BG
BDX34CG
BDX53BG
BDX53C
BDX53CG
BDX54BG
BDX54C
BDX54CG
BU323ZG
BU406G
BU406G
BUB323ZG
BUB323ZT4G
BUD42D-1G
BUD42DG
BUD42DT4G
BUH100G
BUH150G
BUH50G
BUH51G
BUL146FG
BUL146G
BUL44G
BUL45D2G
BUL45G
BUL642D2G
BUV21
BUV21
BUV21G
BUV21G
BUV22G
BUV22G
BUV26G
BUV27G
BUX85G
D44C12G
D44H11
D44H11G
D44H8
D44H8G
D44VH10
D44VH10G
D45C12G
D45H11
D45H11G
D45H8
D45H8G
D45VH10
D45VH10G
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MJ11015



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MJD32T4G
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MJF2955G
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MJF45H11
MJF45H11G
MJF47G



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MJH11022G
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NJL1302DG
NJL3281DG
NJL4281DG
NJL4302DG
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NJV2N6292G



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NJV2N6491G
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NJVBD242BG
NJVBDW47G
NJVBDX33CG
NJVBDX53BG
NJVD45H8G
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NJVMJD148T4G
NJVMJD32CT4
NJVMJD32CT4G
NJVMJD340T4G
NJVMJD41CT4G
NJVMJD42CT4
NJVMJD44H11T4
NJVMJD47T4G
NJVMJE15030G
NJVMJE15031G
NJVMJE15032
NJVMJE15032G
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NJVTIP107G
NJVTIP110G
NJVTIP111G
NJVTIP122G
NJVTIP127G
NJVTIP29CG
NJVTIP31CG
NJVTIP31G
NJVTIP32CG
NJVTIP41CG
NJVTIP42BG
NJVTIP47G
NJVTIP50G
N JW0281G
N JW0302G
N JW1302G
N JW21193G
N JW21194G
N JW3281G
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SJ6425-1G
SJ6521A
SJ6521AG
SJ6522AG
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SJ7158G
SJ73180



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SJ7443
SJ8274G
SJ8274G
SJ83100
SJ83180
SJ84140
SJ84200
SJ9622
SJ9622G
SJB1001T4
SJB1001T4G
SJB1002T4
SJB1002T4G
SJB42CT4
SJC323ZFP
SJC4196FP
SJC4446TR
SJC45H11PF
SJC45H11TR
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SJD1001T4G
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SJD1015-1G
SJD1015T4
SJD1015T4G
SJD1018RLG
SJD1023T4
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SJD1030-001G
SJD1030T4
SJD1030T4G
SJD1031T4
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SJD1038T4
SJD1041T4
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SJD112T4
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SJD127T4
SJD127T4G
SJD200T4
SJD200T4G
SJD2550T4G
SJD31CT4
SJD31CT4G
SJD32CT4
SJD32CT4G
SJD42CT4
SJD42CT4G
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SJD44H12T4G
SJD45H11T4



SJD45H11T4G
SJD45H11T4G
SJD5873T4
SJD5873T4G
SJE1525LFCA
SJE163
SJE163
SJE2870LFDC
SJE2870LFDCG
SJE2872
SJE2872G
SJE2982G
SJE3011
SJE3011G
SJE3015G
SJE3798
SJE3798G
SJE3874
SJE3874G
SJE3875
SJE3875G
SJE5124
SJE5124G
SJE5384
SJE5779
SJE5818
SJE5818G
SJE5845
SJE5845G
SJE5874G
SJE5959LFVK
SJE6406G
SJE6429
SJE6429G
SJE6600G
SJE9122G
SJF1003
SJF2008LFRB
SJF2008LFRB
SJF2009
SJF2009G
SJW1302G
SJW3281G
SMJD44H11T4G
SMMJT9435T1G
TE02462TG
TE02463TG
TEC0179PF
TEC0193BPF
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TIP101G
TIP102
TIP102G
TIP106G
TIP107
TIP107G
TIP110G
TIP111G



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TIP140G
TIP141
TIP141G
TIP142
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TIP147G
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TIP29CG
TIP3055G
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TIP31AG
TIP31B
TIP31BG
TIP31C
TIP31CG
TIP31G
TIP32A
TIP32AG
TIP32BG
TIP32C
TIP32CG
TIP32G
TIP33C
TIP33CG
TIP35AG
TIP35C
TIP35CG
TIP36AG
TIP36C
TIP36CG
TIP41AG
TIP41BG
TIP41C
TIP41CG



TIP42AG
TIP42BG
TIP42C
TIP42CG
TIP42G
TIP47
TIP47G
TIP48G
TIP50
TIP50G

AFFECTED DEVICE LIST FOR BIDIRECTIONAL TVS DIODES:
PARTS:

1SMA10CAT3G
1SMA12CAT3G
1SMA13CAT3G
1SMA15CAT3G
1SMA16CAT3G
1SMA18CAT3G
1SMA20CAT3G
1SMA24CAT3G
1SMA26CAT3
1SMA26CAT3G
1SMA28CAT3G
1SMA30CAT3G
1SMA33CAT3G
1SMA36CAT3G
1SMA40CAT3G
1SMA48CAT3G
1SMA58CAT3G
1SMA60CAT3G
1SMA70CAT3G
1SMA78CAT3G
1SMB10CAT3
1SMB10CAT3G
1SMB11CAT3G
1SMB12CAT3G
1SMB13CAT3G
1SMB14CAT3G
1SMB15CAT3G
1SMB16CAT3G
1SMB17CAT3G
1SMB18CAT3G
1SMB20CAT3G
1SMB22CAT3G
1SMB24CAT3G
1SMB26CAT3G
1SMB28CAT3G
1SMB30CAT3G
1SMB33CAT3G
1SMB36CAT3
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1SMB40CAT3G
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1SMB45CAT3G
1SMB48CAT3G



1SMB51CAT3G
1SMB54CAT3G
1SMB58CAT3G
1SMB60CAT3G
1SMB64CAT3G
1SMB75CAT3G
P6SMB11CAT3
P6SMB11CAT3G
P6SMB12CAT3
P6SMB12CAT3G
P6SMB15CAT3G
P6SMB16CAT3G
P6SMB18CAT3
P6SMB18CAT3G
P6SMB20CAT3G
P6SMB22CAT3G
P6SMB24CAT3G
P6SMB27CAT3G
P6SMB30CAT3G
P6SMB33CAT3G
P6SMB36CAT3G
P6SMB39CAT3G
P6SMB43CAT3
P6SMB43CAT3G
P6SMB47CAT3G
P6SMB51CAT3G
P6SMB56CAT3G
P6SMB62CAT3G
P6SMB68CAT3G
P6SMB82CAT3G
S1Z1SMB36CAT3
SZ1SMA16CAT3
SZ1SMA16CAT3G
SZ2841T3
SZ2841T3G
SZ2892CAT3

AFFECTED DEVICE LIST FOR TVS ARRAY:

PARTS:

LC03-6R2G
NUP4106DR2G
NUP4201DR2G
SL05T1
SL05T1G
SL15T1G
SL24T1G
SRDA05-4R2G
NUP4302MR6T1G

AFFECTED DEVICE LIST FOR SMALL SIGNAL SCHOTTKY

PARTS:

BAS40-04LT1
BAS40-04LT1H
BAS40-04LT1G
BAS40-06LT1G
BAS40LT1



BAS40LT1G
BAS40LT3G
BAS70-04LT1
BAS70-04LT1G
BAS70LT1
BAS70LT1G
BAT54ALT1
BAT54ALT1G
BAT54ALT1H
BAT54AWT1G
BAT54AWT1H
BAT54CLT1
BAT54CLT1G
BAT54CLT1H
BAT54CLT3G
BAT54CTT1G
BAT54CWT1G
BAT54CWT1H
BAT54CXV3T1G
BAT54HT1
BAT54HT1G
BAT54HT1H
BAT54LT1
BAT54LT1G
BAT54LT1H
BAT54M3T5G
BAT54SLT1
BAT54SLT1G
BAT54SLT1H
BAT54SWT1
BAT54SWT1G
BAT54SWT1H
BAT54T1
BAT54T1G
BAT54WT1G
BAT54XV2T1G
BAT54XV2T1H
BAT54XV2T5G
LDZ75S790ZWP
MBD301G
MBD330DWT1
MBD330DWT1G
MBD54DWT1G
MBD54DWT1G
MBD770DWT1G
MMBD101LT1G
MMBD301LT1
MMBD301LT1G
MMBD301LT1H
MMBD301LT3G
MMBD301M3T5G
MMBD330T1G
MMBD352LT1
MMBD352LT1G
MMBD352WT1
MMBD352WT1G
MMBD353LT1G
MMBD354LT1G



MMBD355LT1G
MMBD452LT1G
MMBD701LT1
MMBD701LT1G
MMBD717LT1G
MMBD770T1G
MMDL101T1G
MMDL301T1G
MMDL301T1H
MMDL770T1G
MMSD301T1
MMSD301T1G
MMSD301T1H
MMSD701T1G
NSR0130P2T5G
NSR0130P2T5H
NSR0140P2T5G
NSR0140P2T5H
NSR0170P2T5G
NSR0230M2T5G
NSR0230M2T5H
NSR0230P2T5G
NSR0230P2T5H
NSR0240HT1G
NSR0240P2T5G
NSR0240V2T1G
NSR0320MW2T1G
NSR0320MW2T1H
NSR0320MW2T3G
NSR0320XV6T1G
NSR0320XV6T5
NSR0320XV6T5G
NSR0340HT1G
NSR0340P2T5G
NSR0340V2T1G
NSR0520V2T1G
NSR0530P2T5G
NSR0620P2T5G
NSR1020MW2T1G
NSR1020MW2T3G
NSR15TW1T2G
NSR30CM3T5G
NSR30CM3T5H
NSRLL30XV2T1G
NSRLV20MW2T1G
NSVBAS70LT1G
NSVBAT54HT1
NSVBAT54HT1G
NSVMMBD352WT1G
NSVMMBD353LT1
NSVMMBD353LT1G
NTLUF4189NZTAG
NTLUF4189NZTBG
NUP4302MR6T1G
RB520S30T1
RB520S30T1G
RB521S30T1
RB521S30T1G



RB751S40T1G
RB751V40T1G
SBAT54ALT3
SBAT54ALT3G
SBAT54SLT1G
SMBD1022LT1G
SMMBD301LT1
SMMBD301LT1G



AFFECTED DEVICE LIST FOR ULTRAFAST RECTIFIERS:

PARTS:

BYV32-200G
BYW29-200G
BYW29-200H
BYW51-200G
BYW80-200G
MSR1560G
MSR860G
MSRD620CTG
MSRD620CTT4
MSRD620CTT4G
MSRF1560G
MSRF860G
MUR105
MUR105G
MUR105RLG
MUR110
MUR1100E
MUR1100EG
MUR1100ERL
MUR1100ERLG
MUR110G
MUR110RL
MUR110RLG
MUR115
MUR115G
MUR115RL
MUR115RLG
MUR120
MUR120G
MUR120RL
MUR120RLG
MUR130
MUR130G
MUR130RL
MUR130RLG
MUR140
MUR140G
MUR140RL
MUR140RLG
MUR1510G
MUR1515G
MUR1520
MUR1520G
MUR1540G
MUR1560
MUR1560G
MUR1560H
MUR160
MUR160G
MUR160RL
MUR160RLG
MUR1610CTG
MUR1615CTG
MUR1620CT
MUR1620CTG



MUR1620CTRG
MUR1640CTG
MUR1640CTH
MUR1660CTG
MUR180E
MUR180EG
MUR180ERL
MUR180ERLG
MUR2020RG
MUR210
MUR2100E
MUR2100EG
MUR2100ERL
MUR2100ERLG
MUR210G
MUR210RL
MUR210RLG
MUR220
MUR220G
MUR220RL
MUR220RLG
MUR240
MUR240G
MUR240RL
MUR240RLG
MUR260
MUR260G
MUR260RL
MUR260RLG
MUR3020PTG
MUR3020WT
MUR3020WTG
MUR3040PT
MUR3040PTG
MUR3060PTG
MUR3060WTG
MUR405
MUR405G
MUR410
MUR4100E
MUR4100EG
MUR4100ERL
MUR4100ERLG
MUR410G
MUR410RL
MUR410RLG
MUR415
MUR415G
MUR415RL
MUR415RLG
MUR420
MUR420G
MUR420RL
MUR420RLG
MUR420S
MUR420SG
MUR440
MUR440G



MUR440RL
MUR440RLG
MUR460
MUR460G
MUR460RL
MUR460RLG
MUR480E
MUR480EG
MUR480ERL
MUR480ERLG
MUR480ES
MUR480ESG
MUR550APFRLG
MUR550PFG
MUR620CTG
MUR805G
MUR8100EG
MUR810G
MUR815
MUR815G
MUR820
MUR820G
MUR840
MUR840G
MUR860
MUR860G
MUR860H
MUR880E
MUR880EG
MURA105T3G
MURA110T3
MURA110T3G
MURA115T3G
MURA120T3
MURA120T3G
MURA120T3H
MURA130T3G
MURA140T3
MURA140T3G
MURA160T3
MURA160T3G
MURA160T3H
MURA205T3G
MURA210T3G
MURA215T3
MURA215T3G
MURA220T3
MURA220T3G
MURA230T3G
MURA240T3G
MURA260T3G
MURB1620CTG
MURB1620CTRG
MURB1620CTRT4G
MURB1620CTT4
MURB1620CTT4G
MURB1660CTG
MURB1660CTT4G



MURC120WP
MURC1510WP
MURC1520WP
MURC1540WP
MURC1560WP
MURC160WP
MURC240WP
MURC3020WP
MURC3040WP
MURC8100EWP
MURC820WP
MURC860WP
MURD305RL
MURD310T4
MURD320T4
MURD320T4G
MURD330T4
MURD330T4G
MURD340T4G
MURD530T4G
MURD550PFT4G
MURD610CTT4
MURD620CT1
MURD620CTG
MURD620CTH
MURD620CTT4
MURD620CTT4G
MURF1560G
MURF1620CTG
MURF1660CTG
MURF550PFG
MURF860G
MURF860H
MURH840CT
MURH840CTG
MURH860CTG
MURHB840CTG
MURHB840CTT4
MURHB840CTT4G
MURHB860CTG
MURHB860CTT4G
MURHC860CTWP
MURHD560T4G
MURHD560W1T4G
MURHF860CT
MURHF860CTG
MURHS160T3G
MURS105T3G
MURS110T3
MURS110T3G
MURS115T3
MURS115T3G
MURS120T3
MURS120T3G
MURS120T3H
MURS140T3
MURS140T3G
MURS140T3H



MURS160T3
MURS160T3G
MURS160T3H
MURS205T3G
MURS210T3G
MURS220T3
MURS220T3G
MURS230T3
MURS230T3G
MURS240T3G
MURS260T3G
MURS320T3
MURS320T3G
MURS320T3H
MURS340T3
MURS340T3G
MURS360BT3G
MURS360T3
MURS360T3G
MURS360T3H
MURS480ET3G
NRVUB1620CTRT4
NRVUB1620CTRT4G
NRVUB1620CTT4
NRVUB1620CTT4G
NRVUD620CTG
NRVUD620CTT4G
NRVUS240T3G
SSRD8620CTT4G
SUR120RL
SUR120RLG
SUR1640CT
SUR1640CTG
SUR187SG
SUR2020RG
SUR206CT2LF
SUR245CTLFBNG
SUR259RL
SUR259RLG
SUR321CTR
SUR321CTRG
SUR322LFDS
SUR322LFDSDG
SUR327RL
SUR327RLG
SUR3388LF
SUR3388LFG
SUR456ERL
SUR456ERLG
SUR460LFG
SUR555LFG
SUR5665T3
SUR5665T3G
SUR620CTT4G
SUR722LFG
SUR8120RL
SUR8120RLG
SUR81520



SUR81520G
SUR81560G
SUR81620CT
SUR81620CTG
SUR81620CTRG
SUR832-200G
SUR8420RL
SUR8420RLG
SUR8620CTG
SUR88100E
SUR88100EG
SUR8820G
SUR8840G
SURB100CTT4
SURB100CTT4G
SURB121CTT4
SURB121CTT4G
SURB1620CTT4
SURB1620CTT4G
SURC215-120WP
SURC320PF
SURD106T4G
SURD107T4G
SURD5525PFT4G
SURD8320T4
SURD8320T4G
SURD8330T4G
SURF1620CT-SPG
SURF319LFRB
SURF81620CTG
SURHD8560T4G
SURS221T3
SURS221T3G
SURS239T3
SURS239T3G
SURS283T3
SURS283T3-1
SURS283T3-1G
SURS283T3-3
SURS283T3-3G
SURS283T3-4G
SURS283T3G
SURS5643T3
SURS5643T3G
SURS5644T3
SURS5644T3G
SURS5648T3
SURS5648T3G
SURS5650T3
SURS5650T3G
SURS5651T3
SURS5651T3G
SURS5662T3
SURS5662T3G
SURS5664T3
SURS5664T3G
SURS5666T3
SURS5666T3G



SURS5670T3
SURS5670T3G
SURS8105T3G
SURS8110T3G
SURS8115T3G
SURS8120T3
SURS8120T3G
SURS8140T3
SURS8140T3G
SURS8160T3
SURS8160T3G
SURS8205T3G
SURS8210T3G
SURS8220T3G
SURS8260T3G
SURS8320T3
SURS8320T3G
SURS8360T3
SURS8360T3G
TURC120TS1
TURC1310PF
TURC1310TR
TURC160TR
TURC160TR1
TURC160TS1

AFFECTED DEVICE LIST FOR THYRISTOR SURGE PROTECTION DEVICES (TSPD):
PART

NP0080TATIG
NP0120TATIG
NP0640SCMCT3G
NP0720SCMCT3G
NP0900SCMCT3G
NP1100SCMCT3G
NP1300SCMCT3G
NP1500SCMCT3G