



PRODUCT TERMINATION NOTIFICATION

PTN APM-DIS/08/3987
Notification Date 08/27/2008

APM - ASD & IPAD Division
Thyristors, Rectifiers, IPAD and Protection Devices:
Termination of devices with low activity

Table 1. Termination Implementation Schedule

Forecasted date of STMicroelectronics 'alternative products replacement' for customer	20-Aug-2008
Last Order entry date (6 months from the notice for final shipment according to JEDEC standard JESD48-A 'Product Discontinuance')	28-Feb-2009
Last Order delivery date (12 months from the notice for final shipment according to JEDEC standard JESD48-A 'Product Discontinuance')	28-Aug-2009

Table 2. Termination Identification

Product Identification Commercial Product(s) to be terminated	Some Thyristors, Rectifiers, IPAD and Protection
Reason for termination	Low activity of Devices
Alternate product(s) replacement	See attached

Table 3. List of Attachments

Customer Part numbers list	
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DOCUMENT APPROVAL

Name	Function
Paris, Eric	Division Marketing Manager
Duclos, Franck	Division Product Manager



**PRODUCT TERMINATION
NOTIFICATION**

PTN APM-DIS/08/3987

APM - ASD & IPAD Division¹

Thyristors, Rectifiers, IPAD and Protection Devices:

Termination of devices with low activity

(1) APM: Analog, Power & MEMS Group - ASD: Application Specific Device - IPAD: Integrated Passive and Active Devices

WHY THIS PRODUCT TERMINATION?

The permanent evolution of the product family ranges sustained by the introduction of new products and the constant trend for more compact packages, rapidly make some **older products obsolete**.

With the concern of maintaining an optimal product offer with the best service, STMicroelectronics announces the termination of some **Thyristors, Rectifiers, IPAD** and **Protection Devices** for **rationalization** reason.

According to ST's termination process, the parts in end of life (EOL) have been affected a special maturity code (50) in order to **stop the delivery of samples** and consequently to avoid their use in new designs.

REPLACEMENT SCHEME

Replacement products, whether direct or similar, are proposed whenever possible. Suggested parts for replacement are listed in **appendix 1** to the present document.

We recommend our customers to place their last time buy order for the products in termination from now on.

TERMS AND CONDITIONS

- ✓ **Sampling:**
Parts in termination are not allowed for sampling since **August 14, 2008**
- ✓ **Orders:**
Orders for the discontinued products will be accepted until February 2009,
Last time buy: **February 28, 2009**
- ✓ **Deliveries:**
Products in termination will be delivered at the latest until August 2009.
Last ship date: **August 28, 2009**
- ✓ **Contracts:**
Discontinued products must not be included into 2009 and further contracts.

Appendix 1: Suggested Replacement Parts List.

Appendix 1

Suggested Replacement Parts List

BU	Part in replacement	Package	Description	Suggested Part for Replacement	
				Direct*	Nearest
58	BTA04-600TRG	TO-220AB Ins	Std Triac 4A 600V 5 mA		BTA06-600TWRG
58	BTA06-400DRG	TO-220AB Ins	Std Triac 6A 400V 5 mA	BTA04-600DRG	
58	BTA06-700SWRG	TO-220AB Ins	Snbless Triac 6A 700V 10 mA		BTA08-600TWRG
58	BTA08-700TWRG	TO-220AB Ins	Snbless Triac 8A 700V 5 mA		BTA08-600TWRG
58	BTA10-700CWRG	TO-220AB Ins	Snbless Triac 10A 700V 35 mA		BTA12-800CWRG
58	BTA12-400BRG	TO-220AB Ins	Std Triac 12A 400V 50 mA	BTA12-600BRG	
58	BTA16-400BWRG	TO-220AB Ins	Snbless Triac 16A 400V 50 mA	BTA16-600BWRG	
58	BTA25-400B	RD-91	Std Triac 25A 400V 50 mA	BTA25-600B	
58	BTA40-400B	RD-91	Std Triac 40A 400V 50 mA	BTA40-600B	
58	BTA41-400BRG	TOP3 Ins	Std Triac 40A 400V 50 mA	BTA41-600BRG	
58	BTB08-400TWRG	TO-220AB	Snbless Triac 8A 400V 5 mA	BTB08-600TWRG	
58	BTB12-700CRG	TO-220AB	Std Triac 12A 700V 25 mA		BTB12-800CWRG
58	BTB12-700SWRG	TO-220AB	Snbless Triac 12A 700V 10 mA		BTB16-700SWRG
58	BTB16-700CWRG	TO-220AB	Snbless Triac 16A 700V 35 mA	BTB16-800CWRG	
58	BTB24-400BRG	TO-220AB	Std Triac 25A 400V 50 mA	BTB24-600BRG	
58	BTB24-700BRG	TO-220AB	Std Triac 25A 700V 50 mA	BTB24-800BRG	
58	BTW67-200	RD-91	Std SCR 40A 200V 80 mA	BTW67-600	
58	BTW68-200RG	TOP3 Ins	Std SCR 30A 200V 50 mA	BTW68-600RG	
58	T405-400B	DPAK	Snbless Triac 4A 400V 5 mA	T405-600B	
58	T410-700W	ISOWATT220AB	Snbless Triac 4A 700V 10 mA	T410-800W	
58	TS1220-700B	DPAK	Sens. SCR 12A 600V 0.2 mA		TS1220-600B-TR
58	TS820-400B	DPAK	Sens. SCR 8A 400V 0.2 mA	TS820-600B	
58	TXN1012RG	TO-220AB Ins	Std SCR 12A 1000V 15 mA		TYN1012RG
58	TYP1012RG	TO-220AB	Std SCR 12A 1000V 30 mA		TYN825RG
58	TYP1012RG	TO-220AB	Std SCR 12A 1000V 30 mA		TYN825RG
58	X00602MNSBA4	SOT-223	Sens. SCR 0.8A 600V 0.2 mA		X00602MA 5AL2
58	X0203MA 2BL2	TO-92	Sens. SCR 1.25A 600V 0.2 mA		X0203MA 1BA2
58	X0402NE 1AA2	TO202-1	Sens. SCR 4A 800V 0.2 mA		X0405NF 1AA2
58	X0403DF 0AA2	TO202-3	Sens. SCR 4A 400V 0.2 mA		X0403DF 1AA2
58	Z0103DN 5AA4	SOT-223	Std Triac 1A 400V 3 mA	Z0103MN 5AA4	
58	Z0405BE 1AA2	TO202-1	Std Triac 4A 200V 5 mA		Z0405MF 1AA2
58	Z0405DE 0AA2	TO202-1	Std Triac 4A 400V 5 mA		Z0405MF 1AA2
58	Z0405DF 0AA2	TO202-3	Std Triac 4A 400V 5 mA		Z0405MF 1AA2
58	Z0405DF 1AA2	TO202-3	Std Triac 4A 400V 5 mA		Z0405MF 1AA2
58	Z0405NE 1AA2	TO202-1	Std Triac 4A 800V 5 mA		Z0405NF 1AA2
58	Z0409DE 1AA2	TO202-1	Std Triac 4A 400V 10 mA		Z0409MF 1AA2
58	Z0409DF 1AA2	TO202-3	Std Triac 4A 400V 10 mA		Z0409MF 1AA2
58	Z0410DE 1AA2	TO202-1	Std Triac 4A 400V 25 mA		Z0410MF 1AA2
58	Z0410DF 1AA2	TO202-3	Std Triac 4A 400V 25 mA		Z0410MF 1AA2
78	BAR28	DO-35	Sign Schottky 15mA 70V	1N5711	
78	BAS70K	SOD-523	Sign Schottky 15mA 70V	BAS70KFILM	
78	BAS70WFILM	SOT-323	Sign Schottky 15mA 70V		BAS70FILM
78	BAT30K	SOD-523	Sign Schottky 300mA 30V	BAT30KFILM	
78	BAT41K	SOD-523	Sign Schottky 100mA 100V	BAT41KFILM	
78	BAT54K	SOD-523	Sign Schottky 300mA 30V	BAT54KFILM	
78	DMV1500HDFD	TO-220FDAB	Damper Mod 1500V Hi def		none
78	DTV1500HFP	TO-220FPAC	Damper Alone 1500V Hi freq		none
78	STPS10L45CG-TR	D ² PAK	Pwr Schottky 2x5A 45V Low Vf		STPS10L45CT
78	STPS10L60CG-TR	D ² PAK	Pwr Schottky 2x5A 60V Low Vf		STPS20L60CG-TR
78	STPS16150CG-TR	D ² PAK	Pwr Schottky 2x8A 150V		STPS16170CG-TR
78	STPS1L60	DO-41	Pwr Schottky 1A 60V Low Vf	STPS1L60RL	
78	STPS20170CG	D ² PAK	Pwr Schottky 2x10A 170V	STPS20170CG-TR	
78	STPS20170CR	TO-220AB	Pwr Schottky 2x10A 170V		STPS20170CT
78	STPS2045CG	D ² PAK	Pwr Schottky 2x10A 45V	STPS2045CG-TR	
78	STPS30170CFP	TO-220FPAB	Pwr Schottky 2x15A 170V		STPS30170CT
78	STPS30170CG	D ² PAK	Pwr Schottky 2x15A 170V	STPS30170CG-TR	
78	STPS3045CFP	TO-220FPAB	Pwr Schottky 2x15A 45V		STPS3045CT
78	STPS30H60CG	D ² PAK	Pwr Schottky 2x15A 60V Hi Tj	STPS30H60CG-TR	
78	STPS30L30CR	I ² PAK	Pwr Schottky 2x15A 30V Low Vf		STPS30L30CT
78	STPS30L60CG	D ² PAK	Pwr Schottky 2x15A 60V Low Vf	STPS30L60CG-TR	
78	STPS40120CR	I ² PAK	Pwr Schottky 2x20A 120V		STPS40120CT
78	STPS40170CG	D ² PAK	Pwr Schottky 2x20A 170V	STPS40170CG-TR	
78	STPS5L40-C2	DO-201AD bent	Pwr Schottky 5A 40V Low Vf		STPS5L40

Appendix 1**Suggested Replacement Parts List**

BU	Part in replacement	Package	Description	Suggested Part for Replacement	
				Direct*	Nearest
78	STPS80L30CY	Max247	Pwr Schottky 2x40A 30V Low Vf		STPS80L60CY
78	STTH1003G	D ² PAK	Diode Ufast 10A 300V	STTH1003G-TR	
78	STTH1003SB	PAK	Ufast Diode 2x5A 300V PDP	STTH1003SB-TR	
78	STTH1003SFP	TO-220FPAB	Ufast Diode 2x5A 300V PDP		STTH1004SFP
78	STTH1003SG	D ² PAK	Ufast Diode 2x5A 300V PDP		STTH1004SG
78	STTH1003SG-TR	D ² PAK	Ufast Diode 2x5A 300V PDP		STTH1004SG-TR
78	STTH1003ST	TO-220AB	Ufast Diode 2x5A 300V PDP		none
78	STTH1004SG	D ² PAK	Ufast Diode 2x5A 400V PDP	STTH1004SG-TR	
78	STTH1004ST	TO-220AB	Ufast Diode 2x5A 400V PDP		none
78	STTH110RL	DO-41	Ufast Diode 1A 1000V	STTH110	
78	STTH12002TV1	ISOTOP	Ufast Diode 2x60A 200V		STTH12003TV1
78	STTH1210G	D ² PAK	Ufast Diode 12A 1000V	STTH1210G-TR	
78	STTH1212G	D ² PAK	Ufast Diode 12A 1200V	STTH1212G-TR	
78	STTH1302CFP	TO-220FPAB	Ufast Diode 2x6.5A 200V		STTH1602CFP
78	STTH15L06G	D ² PAK	Ufast Diode 15A 600V Low Vf	STTH15L06G-TR	
78	STTH16L06CG	D ² PAK	Ufast Diode 2x8A 600V Low Vf	STTH16L06CG-TR	
78	STTH2004ST	TO-220AB	Ufast Diode 2x10A 400V PDP		none
78	STTH2006W	DO-247	Ufast Diode 20A 600V		STTH3006W
78	STTH208RL	DO-15	Ufast Diode 2A 800V	STTH208	
78	STTH20P03ST	TO-220AB	Ufast Diode 2x10A 300V PDP		none
78	STTH212	DO-201AD	Ufast Diode 2A 1200V		STTH212U
78	STTH212RL	DO-201AD	Ufast Diode 2A 1200V		STTH212U
78	STTH2L06RL	DO-41	Ufast Diode 2A 600V Low Vf	STTH2L06	
78	STTH3002CPI	TOP3 Ins	Ufast Diode 2x15A 200V		STTH3002CW
78	STTH3002G	D ² PAK	Ufast Diode 30A 200V	STTH3002G-TR	
78	STTH3006TPI	TOP3 Ins	Ufast Diode 30A 600V Tandem		STTH3006DPI
78	STTH30L06CG	D ² PAK	Ufast Diode 2x15A 600V Low Vf	STTH30L06CG-TR	
78	STTH30L06CT	TO-220AB	Ufast Diode 2x15A 600V Low Vf		STTH30L06CG-TR
78	STTH30L06G	D ² PAK	Ufast Diode 30A 600V Low Vf	STTH30L06G-TR	
78	STTH30L06PI	DOP3 Ins	Ufast Diode 30A 600V Low Vf		STTH30L06W
78	STTH30P03ST	TO-220AB	Ufast Diode 2x15A 300V PDP		none
78	STTH30R06D	TO-220AC	Ufast Diode 30A 600V Low trr		STTH30R06W
78	STTH312B	PAK	Ufast Diode 3A 1200V	STTH312B-TR	
78	STTH3L06B	PAK	Ufast Diode 3A 600V Low Vf	STTH3L06B-TR	
78	STTH3L06RL	DO-201AD	Ufast Diode 3A 600V Low Vf	STTH3L06	
78	STTH3R02Q	DO-15	Ufast Diode 3A 200V Low trr	STTH3R02QRL	
78	STTH40P03SFP	TO-220FPAB	Ufast Diode 2x20A 300V PDP		none
78	STTH40P03ST	TO-220AB	Ufast Diode 2x20A 300V PDP		none
78	STTH4R02	DO-201AD	Ufast Diode 4A 200V Low trr	STTH4R02RL	
78	STTH4R02D	TO-220AC	Ufast Diode 4A 200V Low trr		STTH4R02FP
78	STTH6010TV1	ISOTOP	Ufast Diode 2x30A 1000V		STTH6010TV2
78	STTH6010TV2	ISOTOP	Ufast Diode 2x30A 1000V		STTH6010TV1
78	STTH602CFP	TO-220FPAB	Ufast Diode 2x3A 200V		STTH802CFP
78	STTH60P02SW	TO-247	Ufast Diode 2x30A 200V PDP		STTH60P03SW
78	STTH6102TV1	ISOTOP	Ufast Diode 2x30A 1000V		STTH10002TV1
78	STTH802CB	PAK	Ufast Diode 2x3.5A 200V	STTH802CB-TR	
78	STTH802CFP	TO-220FPAB	Ufast Diode 2x3.5A 200V		STTH802CB-TR
78	STTH802CT	TO-220AB	Ufast Diode 2x3.5A 200V		STTH802CB-TR
78	STTH8L06DIRG	TO-220AC Ins	Ufast Diode 8A 600V Low Vf		STTH806DIRG
79	EMIF04-2005QCF	QFN2X2-8L	EMI Filter 4-line bot connec		EMIF04-1502M8
79	ST1284-03A8RL	QSOP28	IEEE 1284 Port Term 6V		ST1284-01A8RL
79	ST1394-01SC6	SOT23-6L	IEEE 1394 Port Term 6V		none
80	BZW04-12BRL	DO-15	Transil Std 400W bi		P6KE15CARL
80	BZW04-13BRL	DO-15	Transil Std 400W bi	BZW04-13B	
80	BZW04-154B	DO-15	Transil Std 400W bi		P6KE200CA
80	BZW04-15RL	DO-15	Transil Std 400W uni	P6KE18ARL	
80	BZW04-256B	DO-15	Transil Std 400W HV bi	P6KE300A	
80	BZW04-28BRL	DO-15	Transil Std 400W bi	BZW04-28B	
80	BZW04-299B	DO-15	Transil Std 400W HV bi		BZW06-342B
80	BZW04-31B	DO-15	Transil Std 400W bi	BZW06-31B	
80	BZW04-33BRL	DO-15	Transil Std 400W bi	BZW06-33B	
80	BZW04-33RL	DO-15	Transil Std 400W uni	BZW04-33	
80	BZW04-342BRL	DO-15	Transil Std 400W HV bi	BZW06-342B	

Appendix 1**Suggested Replacement Parts List**

BU	Part in replacement	Package	Description	Suggested Part for Replacement	
				Direct*	Nearest
80	BZW04-376	DO-15	Transil Std 400W HV uni	P6KE440A	
80	BZW04-40	DO-15	Transil Std 400W uni		P6KE56ARL
80	BZW04-58	DO-15	Transil Std 400W uni	BZW04-58RL	
80	BZW04-5V8BRL	DO-15	Transil Std 400W bi	BZW04-5V8B	
80	BZW04-5V8RL	DO-15	Transil Std 400W uni	BZW06-5V8	
80	BZW04-6V4BRL	DO-15	Transil Std 400W bi	BZW04-6V4B	
80	BZW06-10BRL	DO-15	Transil Std 600W bi	BZW06-10B	
80	BZW06-10RL	DO-15	Transil Std 600W uni	BZW06-10	
80	BZW06-128RL	DO-15	Transil Std 600W uni		P6KE200ARL
80	BZW06-13BRL	DO-15	Transil Std 600W bi	BZW06-13B	
80	BZW06-14RL	DO-15	Transil Std 600W uni		BZW06-15
80	BZW06-171B	DO-15	Transil Std 600W bi	P6KE200CA	
80	BZW06-17RL	DO-15	Transil Std 600W uni		P6KE24ARL
80	BZW06-188RL	DO-15	Transil Std 600W uni		P6KE250ARL
80	BZW06-19BRL	DO-15	Transil Std 600W bi	BZW06-19B	
80	BZW06-19RL	DO-15	Transil Std 600W uni		P6KE24A
80	BZW06-23	DO-15	Transil Std 600W uni	P6KE27A	
80	BZW06-23BRL	DO-15	Transil Std 600W bi	BZW06-23B	
80	BZW06-23RL	DO-15	Transil Std 600W uni	P6KE27ARL	
80	BZW06-26BRL	DO-15	Transil Std 600W bi	BZW06-26B	
80	BZW06-26RL	DO-15	Transil Std 600W uni	BZW06-26	
80	BZW06-273BRL	DO-15	Transil Std 600W HV bi		BZW06-342BRL
80	BZW06-31BRL	DO-15	Transil Std 600W bi	P6KE36A	
80	BZW06-33RL	DO-15	Transil Std 600W uni	BZW06-33	
80	BZW06-342	DO-15	Transil Std 600W HV uni	BZW06-342RL	
80	BZW06-48BRL	DO-15	Transil Std 600W bi	BZW06-48B	
80	BZW06-48RL	DO-15	Transil Std 600W uni	P6KE56ARL	
80	BZW06-53BRL	DO-15	Transil Std 600W bi		P6KE68ARL
80	BZW06-6V4	DO-15	Transil Std 600W uni	P6KE7V5A	
80	BZW06-6V4B	DO-15	Transil Std 600W bi	P6KE7V5CA	
80	BZW06-6V4BRL	DO-15	Transil Std 600W bi	P6KE7V5CA	
80	BZW06-85B	DO-15	Transil Std 600W bi		P6KE150A
80	BZW06-8V5BRL	DO-15	Transil Std 600W bi		BZW06-10B
80	ESDA17SC6	SOT23-6L	Transil Array 4-line 17V unidir		ESDA19SC6
80	ESDA6V1-4F2	Flip-Chip	Transil Array 4-line 6.1V unidir		ESDA6V1-5M6
80	ITA18B3	SO-20	Transil Array 9-line 18V ITA bi		ITA25B3
80	ITA25C1RL	SO-8	Transil Array 4-line 25V ITA bi		ITA25B1RL
80	LCDP1511DRL	SO-8	Dual SLIC Prot. IC 2x12A	LCDP1521RL	
80	SM15T7V5CA	SMC	Transil Std 1500W bi		SM15T10CA
80	SM6HT24A	SMB	Transil Std 600W Hi Tj uni		SM6T24A
80	SM6HT27A	SMB	Transil Std 600W Hi Tj uni		SM6T27A
80	SM6HT30A	SMB	Transil Std 600W Hi Tj uni		SM6T30A
80	SM6HT36A	SMB	Transil Std 600W Hi Tj uni		SM6T36A
80	SM6HT39A	SMB	Transil Std 600W Hi Tj uni		SM6T39A
80	SM6HT43A	SMB	Transil Std 600W Hi Tj uni		SM6T68A
80	SM6T16A	SMB	Transil Std 600W uni		SMBJ15A-TR
80	SM6T75A	SMB	Transil Std 600W uni		SMBJ70A-TR
80	SMA6J12AVCL	SMA	Transil Std 600W HDD uni		SMAJ12A-TR
80	SMCJ170CA-TR	SMC	Transil Std 1500W bi	SM15T200CA	
80	SMCJ6.5CA-TR	SMC	Transil Std 1500W bi	SM15T7V5CA	
80	SMCJ60CA-TR	SMC	Transil Std 1500W bi	SM15T68CA	
80	SMCJ8.5CA-TR	SMC	Transil Std 1500W bi	SM15T10CA	
80	SSRP105B1	SO-8	Trisil IC 2x35A asym. SSR		none
80	SSRP130B1RL	SO-8	Trisil IC 2x30A asym. SSR		none
80	THBT27011DRL	SO-8	Trisil IC 30A 270V tripol. THBT		SMP30-270 x 3
80	TPA130	DO-15	Trisil Std 50A		SMP50-130
80	TPA240RL	DO-15	Trisil Std 50A		SMP50-240

(*) Blank = no direct replacement

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