



Date Created: 4/5/2004
Date Issued: 5/2/2004
PCN # 20041404

DESIGN/PROCESS CHANGE NOTIFICATION -- FINAL

This is to inform you that a design and/or process change will be made to the following product(s). This notification is for your information and concurrence.

If you require data or samples to qualify this change, please contact **Fairchild Semiconductor within 30 days of receipt of this notification.**

If you have any questions concerning this change, please contact:

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E-Mail: JAEHONG.PARK@notes.fairchildsemi.com
Phone:

PCN Originator

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REL Engineer

Name: KANG, BOHEE
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Phone:

PCN Type: Alternate Assembly/Test Location/Qualification

Effectivity

Expected 1st Device Shipment Date: 7/15/2004
Earliest Year/Work Week of Changed Product: 0418
(Note: Package marking may differ from this format)

Product ID (Description):

The change covers all devices in Axial (DO-41, DO-15 and DO-201AD) and KBPM packages, currently assembled, tested and finished in Panjit Taiwan. It is expected that the changes will take effect in parallel, while old inventory is still continuously served until depletion.

Description of Change:

In 1998, Panjit's factory in Kaohsiung , Taiwan was qualified for general purpose rectifiers, schottky rectifiers, bridge rectifiers and transient voltage suppressors. A year after, in 1999 Panjit started its operation for its Shenzhen factory, primarily for selected devices to augment capacity for its other customers. With Panjit's thrust of improving its focus and production control, it is moving all axial and kbpm products to PJ Shenzhen(SZ). Assembly, Testing and Finishing will all be done in SZ adopting all existing built-in quality and machine capability, controls and specifications it has employed in its Taiwan factory. While this transfer streamlines the management of these products, it will at the same time improve its capacity to meet customer demands.

Based on the timelines provided, Fairchild will start to supply axial and kbpm devices built in Panjit Shenzhen, to all its customers.

To	Packages	From
	Axial and KBPM	Manufactured in Kaohsiung Taiwan and
100% manufactured in Shenzhen Factory		Shenzhen Factory
either T or A	100% Plant code using A	From Assembly Plant code using

Effect of Change:

There is no change in the product performance, except that manufacturing site is fully transferred to Panjit Shenzhen. Parts covered in this change are expected to have comparable performance with the current parts in terms of quality and reliability.

Qualification:

Attached are the reliability results of the qualification for Panjit Shenzhen.

Qual/REL Plan Numbers

Additional Qualification Data

FSC Reliability Data

RELIABILITY RESULTS - DO-15

Test: Autoclave (ACLV)

<u>Test Request</u>	<u>Device</u>	<u>Sbgrp</u>	<u>TP</u>	<u>Duration</u>	<u>SS</u>	<u>Lim</u>	<u>Del</u>
230750	1N5391	AP2	<u>PRECONDITIONING:</u>				
LOT#301500131			AFTER REFLOW		79	0	0
"Qual Lot 1"			1	096	79	0	0
230751	1N5391	BP2	<u>PRECONDITIONING:</u>				
LOT#301500201			AFTER REFLOW		79	0	0
"Qual Lot 2"			1	096	79	0	0
230752	1N5391	CP2	<u>PRECONDITIONING:</u>				
LOT#301500191			AFTER REFLOW		79	0	0
"Qual Lot 3"			1	096	79	0	0

Test: Temperature Cycle (TMCL)

<u>Test Request</u>	<u>Device</u>	<u>Sbgrp</u>	<u>TP</u>	<u>Duration</u>	<u>SS</u>	<u>Lim</u>	<u>Del</u>
230750	1N5391	AP2	<u>PRECONDITIONING:</u>				
LOT#301500131			AFTER REFLOW		79	0	0
"Qual Lot 1"			1	100	79	0	0
			2	500	79	0	0
230751	1N5391	BP2	<u>PRECONDITIONING:</u>				
LOT#301500201			AFTER REFLOW		79	0	0
"Qual Lot 2"			1	100	79	0	0
			2	500	79	0	0
230752	1N5391	CP2	<u>PRECONDITIONING:</u>				
LOT#301500191			AFTER REFLOW		79	0	0
"Qual Lot 3"			1	100	79	0	0
			2	500	79	0	0

Test: Highly Accelerated Stress Test (HAST)

<u>Test Request</u>	<u>Device</u>	<u>Sbgrp</u>	<u>TP</u>	<u>Duration</u>	<u>SS</u>	<u>Lim</u>	<u>Del</u>
230750	1N5391	AP2	<u>PRECONDITIONING:</u>				
LOT#301500131			AFTER REFLOW		79	0	0
"Qual Lot 1"			1	096	79	0	0
230751	1N5391	BP2	<u>PRECONDITIONING:</u>				
LOT#301500201			AFTER REFLOW		79	0	0
"Qual Lot 2"			1	096	79	0	0
230752	1N5391	CP2	<u>PRECONDITIONING:</u>				
LOT#301500191			AFTER REFLOW		79	0	0
"Qual Lot 3"			1	096	79	0	0

Test: Resistance to Solder Heat (RSDH)

<u>Test Request</u>	<u>Device</u>	<u>Sbgrp</u>	<u>TP</u>	<u>Duration</u>	<u>SS</u>	<u>Lim</u>	<u>Del</u>
230750	1N5391	AP2	1	10	30		
LOT#301500181						0	0
"Qual Lot 1"							

230751 1N5391 BP2 1 10 30 0 0
LOT#301500201
"Qual Lot 2"

230751 1N5391 CP2 1 10 30 0 0
LOT#301500191
"Qual Lot 3"

testprog: 1N5391 (APPSLAB FETTEST)
polarity: NPN
prodline: Diode
assyloc: Panjit
fabloc: Panjit

originator: A. Marzo
rel: carole

STRESSING CONDITIONS

TEST CONDITIONS

PRECONDITIONING:-Pre electrical testing
 -5cyc TMCL @ -65 to +150degC,15min DWELL
 -24hrs BAKE @ 125 degC
 -168hrs MOISTURE SOAK @ 85degC/85%RH
 -3 passes IR REFLOW @ 260degC +/-5degC, 10secs dwell (min)
 -10secs FLUX IMMERSION
 -After reflow electrical testing

ACLV 121°C 15psi
TMCL -65 to +150degC,15min DWELL
HAST 130°C, 85%RH, Vr=+80V

ma'ts received: 04 Nov'03, 1700hrs

HIGH RELIABILITY SUMMARY REPORT

EXPERIMENT: Fairchild

Package: DO-41 1Amp SKY

TEST DATE: NOV.03.2003-FEB.27.2004

ISSUED DATE: MAR.18.2004

FILE NO: PJ-QA403054

 NEW DESIGN

CHANGE PROCESS

CHANGE MATERIALS

 OTHERS

DESCRIPTION	TEST CONDITION	DURATION	START DATE	FINISH DATE	FAILURE RATE	FAILURE MODE /REMARKS	EQUIPMENT USED
TEMPERATURE CYCLING (T.C.T)	Ta=-55 +0 /-10 deg C, 10min Ta=+150 +15/-0 deg C, 10min Transfer time ? 1 min. The load should reach temp. within 15mins	20 CYCLES	11/18/03	11/19/03	0/22PCS	1N5819x4Lot	ST1-5300 TVR-6000 TVR-6100PJ
		20 CYCLES	12/22/03	12/23/03	0/22PCS		
		20 CYCLES	01/19/04	01/20/04	0/22PCS		
		20 CYCLES	02/23/04	02/24/04	0/22PCS		
HIGH TEMPERATURE STORAGE LIFE (H.T.S.L)	Ta=150+/-5 deg C	500HRS	11/04/03	11/25/03	0/22PCS	1N5819x4Lot	ST1-5300 TVR-6000 TVR-6100PJ
		500HRS	12/01/03	12/22/03	0/22PCS		
		500HRS	01/05/04	01/26/04	0/22PCS		
		500HRS	02/04/04	02/25/04	0/22PCS		
SOLDERABILITY TEST	TEMP. OF SOLDER POT=245±5 deg C TIME FOR DIPPING IN SOLDER 5±1/2 SEC. DIPPING DEPTH? 0.05inch max from the body	1 CYCLE	11/25/03	11/25/03	0/32PCS	1N5819x4Lot	
		1 CYCLE	12/08/03	12/08/03	0/32PCS		
		1 CYCLE	01/12/04	01/12/04	0/32PCS		
		1 CYCLE	02/17/04	02/17/04	0/32PCS		
HIGH TEMPERATURE REVERSE BIAS (H.T.R.B)	Ta=100+/-5 deg C VR=0.8 × VR DC supply	500HRS	11/03/03	11/24/03	0/22PCS	1N5819x4Lot	ST1-5300 TVR-6000 TVR-6100PJ
		500HRS	12/09/03	12/30/03	0/22PCS		
		500HRS	01/06/04	01/27/04	0/22PCS		
		500HRS	02/05/04	02/26/04	0/22PCS		
CONTINUE FORWARD OPERATING LIFE(C.F.O.L)	I= IO+/-10% DC supply	500HRS	11/06/03	11/27/03	0/22PCS	1N5819x4Lot	ST1-5300 TVR-6000 TVR-6100PJ
		500HRS	12/09/03	12/30/03	0/22PCS		
		500HRS	01/09/04	01/30/04	0/22PCS		
		500HRS	02/02/04	02/23/04	0/22PCS		
THERMAL SHOCK(T.S.T)	HOT Ta=100+10/-2deg C, t= 5min COLD Ta=0 +2/-10 deg C, t= 5min TIME BETWEEN TRANSFERRING + 10 SEC	15 CYCLES	11/10/03	11/11/03	0/22PCS	1N5819x4Lot	ST1-5300 TVR-6000 TVR-6100PJ
		15 CYCLES	12/08/03	12/09/03	0/22PCS		
		15 CYCLES	01/07/04	01/08/04	0/22PCS		
		15 CYCLES	02/06/04	02/27/04	0/22PCS		
PRESSURE COOKER (P.C.T)	Ta=121deg C, P=29.7psia/205kPa or 2.088kg/cm2 Relative Humidity = 100%	24HRS	11/18/03	11/19/03	0/22PCS	1N5819x4Lot	ST1-5300 TVR-6000 TVR-6100PJ
		24HRS	12/22/03	12/23/03	0/22PCS		
		24HRS	01/05/04	01/06/04	0/22PCS		
		24HRS	02/09/04	02/10/04	0/22PCS		
INTERMITTENT FORWARD OPERATING LIFE(I.F.O.L)	I=1.2 × IO DC supply ON TIME/30 SEC OFF TIME/50 SEC	2000CYCLES	11/10/03	11/12/03	0/22PCS	1N5819x4Lot	ST1-5300 TVR-6000 TVR-6100PJ
		2000CYCLES	12/08/03	12/10/03	0/22PCS		
		2000CYCLES	01/12/04	01/14/04	0/22PCS		
		2000CYCLES	02/11/04	02/13/04	0/22PCS		
FORWORD SURGE CURRENT	SQ WAVE OR SIN WAVE IFSM=DATA SHEET SPEC. TIME=8.3msec	1 CYCLE	11/06/03	11/06/03	0/22PCS	1N5819x4Lot	ST1-5300 TVR-6000 PIF-8000 TVR-6100PJ
		1 CYCLE	12/22/03	12/22/03	0/22PCS		
		1 CYCLE	01/27/04	01/27/04	0/22PCS		
		1 CYCLE	02/23/04	02/23/04	0/22PCS		
HUMIDITY	Ta=85deg C RH=85%	500HRS	11/07/03	11/28/03	0/22PCS	1N5819x4Lot	ST1-5300 TVR-6000 TVR-6100PJ
		500HRS	12/09/03	12/30/03	0/22PCS		
		500HRS	01/02/04	01/23/04	0/22PCS		
		500HRS	02/06/04	02/27/04	0/22PCS		
SOLDER RESISTANCE	TEMPERATURE OF SOLDER POT=260+/-5 deg C TIME FOR DIPPING IN SOLDER=10 +2/-0 SEC DIPPING DEPTH? 1.57+/-0.79mm FROM THE BODY	1 CYCLE	11/20/03	11/20/03	0/22PCS	1N5819x4Lot	ST1-5300 TVR-6000 TVR-6100PJ
		1 CYCLE	12/10/03	12/10/03	0/22PCS		
		1 CYCLE	01/15/04	01/15/04	0/22PCS		
		1 CYCLE	02/09/04	02/09/04	0/22PCS		
APPROVED	Justin Wu	CHECKED	Chin-I	PREPARED	Chia Lin		

Remarks: 1. See attached record & record data for exact electrical results

2. Schottky product testing temperature 100? max

F-QC1009

DO-15

HIGH RELIABILITY SUMMARY REPORT

EXPERIMENT: Fairchild Package: DO-15 2Amp SKY
 TEST DATE: NOV.01.2003~JAN.30.2004 ISSUED DATE: MAR.18.2004 FILE NO: PJ-QA403056
 NEW DESIGN CHANGE PROCESS CHANGE MATERIALS OTHERS

DESCRIPTION	TEST CONDITION	DURATION	START DATE	FINISH DATE	FAILURE RATE	FAILURE MODE /REMARKS	EQUIPMENT USED
TEMPERATURE CYCLING (T.C.T)	Ta=-55 +0 /-10 deg C, 10min	20 CYCLES	11/22/03	11/23/03	0/22PCS	SB240	ST1-5300
	Ta=+150 +15/-0 deg C, 10min	20 CYCLES	12/09/03	12/10/03	0/44PCS	SB260x2Lot	TVR-6000
	Transfer time ? 1 min. The load should reach temp. within 15mins	20 CYCLES	01/21/04	01/22/04	0/22PCS	SB2100	TVR-6100PJ
HIGH TEMPERATURE STORAGE LIFE (H.T.S.L)	Ta=150+/-5 deg C	500HRS	11/01/03	11/22/03	0/22PCS	SB240	ST1-5300
		500HRS	12/07/03	12/28/03	0/44PCS	SB260x2Lot	TVR-6000
		500HRS	01/06/04	01/27/04	0/22PCS	SB2100	TVR-6100PJ
SOLDERABILITY TEST	TEMP. OF SOLDER POT=245±5 deg C TIME FOR DIPPING IN SOLDER 5±1/2 SEC. DIPPING DEPTH? 0.05inch max from the body	1 CYCLE	11/22/03	11/22/03	0/32PCS	SB240	
		1 CYCLE	12/24/03	12/24/03	0/64PCS	SB260x2Lot	
		1 CYCLE	01/28/04	01/28/04	0/32PCS	SB2100	
HIGH TEMPERATURE REVERSE BIAS (H.T.R.B)	Ta=100+/-5 deg C VR=0.8 × VR DC supply	500HRS	11/08/03	11/29/03	0/22PCS	SB240	ST1-5300
		500HRS	12/06/03	12/27/03	0/44PCS	SB260x2Lot	TVR-6000
		500HRS	01/08/04	01/29/04	0/22PCS	SB2100	TVR-6100PJ
CONTINUE FORWARD OPERATING LIFE(C.F.O.L)	I= IO+/-10% DC supply	500HRS	11/06/03	11/27/03	0/22PCS	SB240	ST1-5300
		500HRS	12/09/03	12/30/03	0/44PCS	SB260x2Lot	TVR-6000
		500HRS	01/09/04	01/30/04	0/22PCS	SB2100	TVR-6100PJ
THERMAL SHOCK(T.S.T)	HOT Ta=100+10/-2deg C, t= 5min COLD Ta=0 +2/-10 deg C, t= 5min TIME BETWEEN TRANSFERRING + 10 SEC	15 CYCLES	11/10/03	11/11/03	0/22PCS	SB240	ST1-5300
		15 CYCLES	12/23/03	12/24/03	0/44PCS	SB260x2Lot	TVR-6000
		15 CYCLES	01/12/04	01/13/04	0/22PCS	SB2100	TVR-6100PJ
PRESSURE COOKER (P.C.T)	Ta=121deg C, P=29.7psia/205kPa or 2.088kg/cm2 Relative Humidity = 100%	24HRS	11/05/03	11/06/03	0/22PCS	SB240	ST1-5300
		24HRS	12/08/03	12/09/03	0/44PCS	SB260x2Lot	TVR-6000
		24HRS	01/12/04	01/13/04	0/22PCS	SB2100	TVR-6100PJ
INTERMITTENT FORWARD OPERATING LIFE(I.F.O.L)	I=1.2 × IO DC supply ON TIME/30 SEC OFF TIME/50 SEC	2000CYCLES	11/19/03	11/21/03	0/22PCS	SB240	ST1-5300
		2000CYCLES	12/15/03	12/17/03	0/44PCS	SB260x2Lot	TVR-6000
		2000CYCLES	01/06/04	01/08/04	0/22PCS	SB2100	TVR-6100PJ
FORWORD SURGE CURRENT	SQ WAVE OR SIN WAVE IFSM=DATA SHEET SPEC. TIME=8.3msec	1 CYCLE	11/17/03	11/17/03	0/22PCS	SB240	ST1-5300
		1 CYCLE	12/22/03	12/22/03	0/44PCS	SB260x2Lot	TVR-6000
		1 CYCLE	01/12/04	01/12/04	0/22PCS	SB2100	PIF-8000 TVR-6100PJ
HUMIDITY	Ta=85deg C RH=85%	500HRS	11/04/03	11/25/03	0/22PCS	SB240	ST1-5300
		500HRS	12/07/03	12/28/03	0/44PCS	SB260x2Lot	TVR-6000
		500HRS	01/05/04	01/26/04	0/22PCS	SB2100	TVR-6100PJ
SOLDER RESISTANCE	TEMPERATURE OF SOLDER POT=260+/-5 deg C TIME FOR DIPPING IN SOLDER=10 +2/-0 SEC DIPPING DEPTH? 1.57+/-0.79mm FROM THE BODY	1 CYCLE	11/04/03	11/04/03	0/22PCS	SB240	ST1-5300
		1 CYCLE	12/23/03	12/23/03	0/44PCS	SB260x2Lot	TVR-6000
		1 CYCLE	01/29/04	01/29/04	0/22PCS	SB2100	TVR-6100PJ
APPROVED	Justin Wu	CHECKED	Chin-I	PREPARED	Chia Lin		

Remarks: 1. See attached record & record data for exact electrical results
 2. Schottky product testing temperature 100? max

F-QC1009

DO-201AD

HIGH RELIABILITY SUMMARY REPORT

EXPERIMENT: Fairchild Package:DO-201AD 5Amp SKY
 TEST DATE: DEC.03.2003~MAR.15.2004 ISSUED DATE: MAR.18.2004 FILE NO: PJ-QA403055
 NEW DESIGN CHANGE PROCESS CHANGE MATERIALS OTHERS

DESCRIPTION	TEST CONDITION	DURATION	START DATE	FINISH DATE	FAILURE RATE	FAILURE MODE /REMARKS	EQUIPMENT USED
TEMPERATURE CYCLING (T.C.T)	Ta=-55 +0 /-10 deg C, 10min Ta=+150 +15/-0 deg C, 10min Transfer time ? 1 min. The load should reach temp. within 15mins	20 CYCLES	12/16/03	12/17/03	0/22PCS	SB560	ST1-5300
		20 CYCLES	01/12/04	01/13/04	0/44PCS	SB540x2Lot	TVR-6000
		20 CYCLES	03/01/04	03/02/04	0/22PCS	SB5100	TVR-6100PJ
HIGH TEMPERATURE STORAGE LIFE (H.T.S.L)	Ta=150+/-5 deg C	500HRS	12/08/03	12/29/03	0/22PCS	SB560	ST1-5300
		500HRS	01/13/04	02/03/04	0/44PCS	SB540x2Lot	TVR-6000
		500HRS	02/09/04	03/01/04	0/22PCS	SB5100	TVR-6100PJ
SOLDERABILITY TEST	TEMP. OF SOLDER POT=245±5 deg C TIME FOR DIPPING IN SOLDER 5±1/2 SEC. DIPPING DEPTH? 0.05inch max from the body	1 CYCLE	12/26/03	12/26/03	0/32PCS	SB560	
		1 CYCLE	01/06/04	01/06/04	0/64PCS	SB540x2Lot	
		1 CYCLE	02/27/04	02/27/04	0/32PCS	SB5100	
HIGH TEMPERATURE REVERSE BIAS (H.T.R.B)	Ta=100+/-5 deg C VR=0.8 × VR DC supply	500HRS	12/03/03	12/24/03	0/22PCS	SB560	ST1-5300
		500HRS	01/06/04	01/27/04	0/44PCS	SB540x2Lot	TVR-6000
		500HRS	01/28/04	02/18/04	0/22PCS	SB5100	TVR-6100PJ
CONTINUE FORWARD OPERATING LIFE(C.F.O.L)	I= IO+/-10% DC supply	500HRS	12/08/03	12/29/03	0/22PCS	SB560	ST1-5300
		500HRS	01/13/04	02/03/04	0/44PCS	SB540x2Lot	TVR-6000
		500HRS	02/09/04	03/01/04	0/22PCS	SB5100	TVR-6100PJ
THERMAL SHOCK(T.S.T)	HOT Ta=100+10/-2deg C, t= 5min COLD Ta=0 +2/-10 deg C, t= 5min TIME BETWEEN TRANSFERRING + 10 SEC	15 CYCLES	01/05/04	01/06/04	0/22PCS	SB560	ST1-5300
		15 CYCLES	01/27/04	01/28/04	0/44PCS	SB540x2Lot	TVR-6000
		15 CYCLES	02/23/04	02/24/04	0/22PCS	SB5100	TVR-6100PJ
PRESSURE COOKER (P.C.T)	Ta=121deg C, P=29.7psia/205kPa or 2.088kg/cm2 Relative Humidity = 100%	24HRS	01/12/04	01/13/04	0/22PCS	SB560	ST1-5300
		24HRS	02/11/04	02/12/04	0/44PCS	SB540x2Lot	TVR-6000
		24HRS	03/03/04	03/04/04	0/22PCS	SB5100	TVR-6100PJ
INTERMITTENT FORWARD OPERATING LIFE(I.F.O.L)	I=1.2 × IO DC supply ON TIME/30 SEC OFF TIME/50 SEC	2000CYCLES	01/12/04	01/14/04	0/22PCS	SB560	ST1-5300
		2000CYCLES	01/28/04	01/30/04	0/44PCS	SB540x2Lot	TVR-6000
		2000CYCLES	02/17/04	02/19/04	0/22PCS	SB5100	TVR-6100PJ
FORWORD SURGE CURRENT	SQ WAVE OR SIN WAVE IFSM=DATA SHEET SPEC. TIME=8.3msec	1 CYCLE	01/29/04	01/29/04	0/22PCS	SB560	ST1-5300
		1 CYCLE	02/16/04	02/16/04	0/44PCS	SB540x2Lot	TVR-6000
		1 CYCLE	03/08/04	03/08/04	0/22PCS	SB5100	PIF-8000 TVR-6100PJ
HUMIDITY	Ta=85deg C RH=85%	500HRS	12/08/03	12/29/03	0/22PCS	SB560	ST1-5300
		500HRS	01/13/04	02/03/04	0/44PCS	SB540x2Lot	TVR-6000
		500HRS	02/09/04	03/01/04	0/22PCS	SB5100	TVR-6100PJ
SOLDER RESISTANCE	TEMPERATURE OF SOLDER POT=260+/-5 deg C TIME FOR DIPPING IN SOLDER=10 +2/-0 SEC DIPPING DEPTH? 1.57+/-0.79mm FROM THE BODY	1 CYCLE	02/03/04	02/03/04	0/22PCS	SB560	ST1-5300
		1 CYCLE	02/24/04	02/24/04	0/44PCS	SB540x2Lot	TVR-6000
		1 CYCLE	03/15/04	03/15/04	0/22PCS	SB5100	TVR-6100PJ
APPROVED	Justin Wu	CHECKED	Chin-I	PREPARED	Chia Lin		

Remarks: 1. See attached record & record data for exact electrical results
 2. Schottky product testing temperature 100° max

F-QC1009

KBPM

HIGH RELIABILITY SUMMARY REPORT

EXPERIMENT: Fairchild Package:KBPM
 TEST DATE: JUN.12.2003~DEC.21.2003 ISSUED DATE: MAR.18.2004 FILE NO: P-QC1004
 NEW DESIGN CHANGE PROCESS CHANGE MATERIALS OTHERS

DESCRIPTION	TEST CONDITION	DURATION	START DATE	FINISH DATE	FAILURE RATE	FAILURE MODE /REMARKS	EQUIPMENT USED
TEMPERATURE CYCLING (T.C.T)	Ta=-55 +0/-10 deg C, 10min	20 CYCLES	06/27/03	06/28/03	0/22PCS	2KBP06M*4Lot	ST1-5300 MPT6000B
	Ta=+150 +15/-0 deg C, 10min	20 CYCLES	07/29/03	07/30/03	0/22PCS		
	Transfer time ? 1 min. The load should reach temp. within 15mins	20 CYCLES	09/01/03	09/02/03	0/22PCS		
		20 CYCLES	11/29/03	11/30/03	0/22PCS		
HIGH TEMPERATURE STORAGE LIFE (H.T.S.L)	Ta=150+/-5 deg C	500HRS	06/12/03	07/03/03	0/22PCS	2KBP06M*4Lot	ST1-5300 MPT6000B
		500HRS	07/16/03	08/06/03	0/22PCS		
		500HRS	08/20/03	09/10/03	0/22PCS		
		500HRS	11/25/03	12/16/03	0/22PCS		
SOLDERABILITY TEST	TEMP. OF SOLDER POT=245±5 deg TIME FOR DIPPING IN SOLDER 5±1/2 SEC. DIPPING DEPTH? 0.05inch max from the body	1 CYCLE	07/04/03	07/04/03	0/32PCS	2KBP06M*4Lot	
		1 CYCLE	07/28/03	07/28/03	0/32PCS		
		1 CYCLE	08/20/03	08/20/03	0/32PCS		
		1 CYCLE	11/28/03	11/28/03	0/32PCS		
HIGH TEMPERATURE REVERSE BIAS (H.T.R.B)	Ta=100+/-5 deg C VR=0.8 × VR DC supply	500HRS	06/12/03	07/03/03	0/22PCS	2KBP06M*4Lot	ST1-5300 MPT6000B
		500HRS	07/20/03	08/11/03	0/22PCS		
		500HRS	08/06/03	08/27/03	0/22PCS		
		500HRS	11/21/03	12/12/03	0/22PCS		
CONTINUE FORWARD OPERATING LIFE(C.F.O.L)	I= IO+/-10% DC supply	500HRS	06/15/03	07/06/03	0/22PCS	2KBP06M*4Lot	ST1-5300 MPT6000B
		500HRS	07/23/03	08/13/03	0/22PCS		
		500HRS	08/29/03	09/19/03	0/22PCS		
		500HRS	11/25/04	12/16/03	0/22PCS		
THERMAL SHOCK(T.S.T)	HOT Ta=100+10/-2deg C, t= 5min COLD Ta=0 +2/-10 deg C, t= 5min TIME BETWEEN TRANSFERRING + 10 SEC	15 CYCLES	06/20/03	06/21/03	0/22PCS	2KBP06M*4Lot	ST1-5300 MPT6000B
		15 CYCLES	07/21/03	07/22/03	0/22PCS		
		15 CYCLES	08/20/03	08/21/03	0/22PCS		
		15 CYCLES	11/29/03	11/30/03	0/22PCS		
PRESSURE COOKER (P.C.T)	Ta=121deg C, P=29.7psia/205kPa or 2.088kg/cm2 Relative Humidity = 100%	24HRS	06/27/03	06/28/03	0/22PCS	2KBP06M*4Lot	ST1-5300 MPT6000B
		24HRS	07/29/03	07/30/03	0/22PCS		
		24HRS	08/19/03	08/20/03	0/22PCS		
		24HRS	11/23/03	11/24/03	0/22PCS		
INTERMITTENT FORWARD OPERATING LIFE(I.F.O.L)	I=1.2 × IO DC supply ON TIME/30 SEC OFF TIME/50 SEC	2000CYCLES	06/19/03	06/21/03	0/22PCS	2KBP06M*4Lot	ST1-5300 MPT6000B
		2000CYCLES	07/23/03	07/25/03	0/22PCS		
		2000CYCLES	08/22/03	08/24/03	0/22PCS		
		2000CYCLES	11/27/03	11/29/03	0/22PCS		
FORWORD SURGE CURRENT	SQ WAVE OR SIN WAVE IFSM=DATA SHEET SPEC. TIME=8.3msec	1 CYCLE	06/15/03	06/15/03	0/22PCS	2KBP06M*4Lot	ST1-5300 MPT6000B PIF-8000
		1 CYCLE	07/27/03	07/27/03	0/22PCS		
		1 CYCLE	08/25/03	08/25/03	0/22PCS		
		1 CYCLE	11/23/03	11/23/03	0/22PCS		
HUMIDITY	Ta=85deg C RH=85%	500HRS	06/15/03	07/06/03	0/22PCS	2KBP06M*4Lot	ST1-5300 MPT6000B TVR-6100PJ
		500HRS	07/26/03	08/16/03	0/22PCS		
		500HRS	08/22/03	09/12/03	0/22PCS		
		500HRS	11/30/03	12/21/03	0/22PCS		
SOLDER RESISTANCE	TEMPERATURE OF SOLDER POT=260+/-5 deg C TIME FOR DIPPING IN SOLDER=10 +2/-0 SEC DIPPING DEPTH? 1.57+/-0.79mm FROM THE BODY	1 CYCLE	06/27/03	06/27/03	0/22PCS	2KBP06M*4Lot	ST1-5300 MPT6000B
		1 CYCLE	07/27/03	07/27/03	0/22PCS		
		1 CYCLE	08/20/03	08/20/03	0/22PCS		
		1 CYCLE	11/24/03	11/24/03	0/22PCS		
APPROVED	Zhang Guojun	CHECKED	Zhao Qing	PREPARED	Xiong Huiping		

Remarks: 1. See attached record & record data for exact electrical results
 2. Schottky product testing temperature 100² max

F-QC1009

Affected FSIDs

1N4001	1N4001GP	1N4002
1N4002GP	1N4003	1N4003GP
1N4004	1N4004GP	1N4005
1N4005GP	1N4006	1N4006GP
1N4007	1N4007GP	1N5391
1N5392	1N5393	1N5394
1N5395	1N5396	1N5397
1N5398	1N5399	1N5400
1N5401	1N5402	1N5403
1N5404	1N5405	1N5406
1N5407	1N5408	1N5817
1N5818	1N5819	1N5820
1N5821	1N5822	1V5KE100A
1V5KE100CA	1V5KE10A	1V5KE10CA
1V5KE110A	1V5KE110CA	1V5KE11A
1V5KE11CA	1V5KE120A	1V5KE120CA
1V5KE12A	1V5KE12CA	1V5KE130A
1V5KE130CA	1V5KE13A	1V5KE13CA
1V5KE150A	1V5KE150CA	1V5KE15A
1V5KE15CA	1V5KE160A	1V5KE160CA
1V5KE16A	1V5KE16CA	1V5KE170A
1V5KE170CA	1V5KE180A	1V5KE180CA
1V5KE18A	1V5KE18CA	1V5KE200A
1V5KE200CA	1V5KE20A	1V5KE20CA
1V5KE220A	1V5KE220CA	1V5KE22A
1V5KE22CA	1V5KE24A	1V5KE24CA
1V5KE250A	1V5KE250CA	1V5KE27A
1V5KE27CA	1V5KE300A	1V5KE300CA
1V5KE30A	1V5KE30CA	1V5KE33A
1V5KE33CA	1V5KE350A	1V5KE350CA
1V5KE36A	1V5KE36CA	1V5KE39A
1V5KE39CA	1V5KE400A	1V5KE400CA
1V5KE43A	1V5KE43CA	1V5KE440A
1V5KE440CA	1V5KE47A	1V5KE47CA
1V5KE51A	1V5KE51CA	1V5KE56A
1V5KE56CA	1V5KE62A	1V5KE62CA
1V5KE68A	1V5KE68CA	1V5KE6V8A
1V5KE6V8CA	1V5KE75A	1V5KE75CA
1V5KE7V5A	1V5KE7V5CA	1V5KE82A
1V5KE82CA	1V5KE8V2A	1V5KE8V2CA
1V5KE91A	1V5KE91CA	1V5KE9V1A
1V5KE9V1CA	2KBP005M	2KBP01M
2KBP02M	2KBP04M	2KBP06M
2KBP08M	2KBP10M	3N246
3N247	3N248	3N249
3N250	3N251	3N252
3N253	3N254	3N255
3N256	3N257	3N258
3N259	KBP005M	KBP01M
KBP02M	KBP04M	KBP06M
KBP08M	KBP10M	P6KE100A
P6KE100CA	P6KE10A	P6KE10CA
P6KE110A	P6KE110CA	P6KE11A
P6KE11CA	P6KE120A	P6KE120CA
P6KE12A	P6KE12CA	P6KE130A
P6KE130CA	P6KE13A	P6KE13CA
P6KE150A	P6KE150CA	P6KE15A
P6KE15CA	P6KE160A	P6KE160CA
P6KE16A	P6KE16CA	P6KE170A
P6KE170CA	P6KE180A	P6KE180CA

P6KE18A
P6KE200CA
P6KE220A
P6KE22CA
P6KE250A
P6KE27CA
P6KE30A
P6KE33CA
P6KE36A
P6KE39CA
P6KE43A
P6KE440CA
P6KE51A
P6KE56CA
P6KE68A
P6KE6V8CA
P6KE7V5A
P6KE82CA
P6KE91A
P6KE9V1CA
SA10A
SA110CA
SA120A
SA12CA
SA13A
SA14CA
SA15A
SA160CA
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SA17CA
SA20A
SA22CA
SA26A
SA28CA
SA33A
SA36CA
SA43A
SA45CA
SA51A
SA54CA
SA5V0A
SA60CA
SA6V0A
SA6V5CA
SA75A
SA78CA
SA7V5A
SA85CA
SA8V5A
SA90CA
SB1100
SB140
SB160
SB320
SB340F055
SB380
SB530
SB560

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P6KE47A
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SA10CA
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SA130A
SA13CA
SA150A
SA15CA
SA16A
SA170CA
SA18A
SA20CA
SA24A
SA26CA
SA30A
SA33CA
SA40A
SA43CA
SA48A
SA51CA
SA58A
SA5V0CA
SA64A
SA6V0CA
SA70A
SA75CA
SA7V0A
SA7V5CA
SA8V0A
SA8V5CA
SA9V0A
SB120
SB140F056
SB180
SB330
SB350
SB5100
SB540
SB580

P6KE200A
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P6KE27A
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P6KE39A
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P6KE440A
P6KE47CA
P6KE56A
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P6KE6V8A
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P6KE9V1A
SA100CA
SA110A
SA11CA
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SA18CA
SA22A
SA24CA
SA28A
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SA36A
SA40CA
SA45A
SA48CA
SA54A
SA58CA
SA60A
SA64CA
SA6V5A
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SA78A
SA7V0CA
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SA90A
SA9V0CA
SB130
SB150
SB3100
SB340
SB360
SB520
SB550