



PCN Report

Prepared By : Kimi Xiong Product Engineer,
 Hellen Yang Product Engineering Manager,
Date : 3/23/2023
Device : DO-214AA/AB/AC SIDACtor Package Product
Revision : B (Corrected for MTBF Calculation)

1.0 Objective:

The purpose of this project is to qualify EMC 2nd source of DO-214AA/AB/AC package for SIDACtor series
 Succeeding pages summarize the physical, electrical and reliability test performed in qualification lots.

2.0 Applicable Devices:

SIDACtor EMC 2nd source

2.1 Qualify samples:

Part No.	Package	Wafer Lot No.	Assembly Lot No.
P0080S1BLRP	DO-214AC	060TF2BP-01L	002KA14ZPEE
P1800S1ALRP		060FN4B-28	002KA13ZPEE
P0640S1BLRP		060FN4B-45L	002KA15ZPEE
PLED18S	DO-214AA	070TL5C-07	002KA9ZPEE
P0641CA2LRP		105D25CM-101	002KA12ZPEE
P0220SALRP-A		065TF2BPA-03	002KA18ZPEE
P3100SALRP-A		065FN4BPA-32	002KA20ZPEE
P3100S3NLRP	DO-214AB	241FN5CP-11	002FA3ZPEE
P3100S3NLRP		241FN5CP-11	002FA4ZPEE
P3100S3NLRP		241FN5CP-11	002FA5ZPEE

2.2 Impacted PN

Please refer to attached Affected part number list.

3.0 Assembly, Process & Material Differences/Changes:

3.1 Assembly and Process Changes

There are no significant changes in the assembly and process method.

EMC 2nd source

Process	Package	Series	Before		After	
			Type	Supplier	Type	Supplier
Molding	DO-214AA/AB/AC	SIDACtor	EME-E110G KLG100S	Sumikon Hysol	EME-E110G VER A KLG100S	Sumikon Hysol

4.0 Packing Method

There will be no changes in the packing method.



5.0 Physical Differences/Changes:

There is no change in mechanical specification or package outline dimension (POD).

6.0 Reliability Test Results Summary:

Test Category	Description	Sample P/N	Package	Sample Qty	Littelfuse test Ref#	Contents/ Conditions	Standard	Result Summary
Parametric	Electrical Parameters	P0080S1BLRP	DO-214AC	238	182153	VBR, IR		100% meet published spec.
		P1800S1ALRP	DO-214AC	238	183070			
		P0640S1BLRP	DO-214AC	238	183070			
		P3100SALRP-A	DO-214AA	349	182151			
		P0220SALRP-A	DO-214AA	349	183071			
		PLED18S	DO-214AA	278	183070			
		P0641CA2LRP	DO-214AA	238	183071			
		P3100S3NLRP	DO-214AB	238	174392			
		P3100S3NLRP	DO-214AB	238	174392			
		P3100S3NLRP	DO-214AB	238	174392			
Reliability	Pre-condition	P0080S1BLRP	DO-214AC	120	182153	TC H3TRB, UHAST	JESD22- A113	0 failures post test
		P1800S1ALRP	DO-214AC	120	183070			
		P0640S1BLRP	DO-214AC	120	183070			
		P3100SALRP-A	DO-214AA	231	182151			
		P0220SALRP-A	DO-214AA	231	183071			
		PLED18S	DO-214AA	120	183070			
		P0641CA2LRP	DO-214AA	120	183071			
		P3100S3NLRP	DO-214AB	120	174392			
		P3100S3NLRP	DO-214AB	120	174392			
		P3100S3NLRP	DO-214AB	120	174392			
	DC Blocking (HTRB)	P0080S1BLRP	DO-214AC	77	182153	bias VR@125C, 1008h	JESD22- A108	0 failures at 1008hours
		P1800S1ALRP	DO-214AC	77	183070			
		P0640S1BLRP	DO-214AC	77	183070			
		P3100SALRP-A	DO-214AA	77	182151			
		P0220SALRP-A	DO-214AA	77	183071			
		PLED18S	DO-214AA	77	183070			
		P0641CA2LRP	DO-214AA	77	183071			
		P3100S3NLRP	DO-214AB	77	174392			
		P3100S3NLRP	DO-214AB	77	174392			
		P3100S3NLRP	DO-214AB	77	174392			
Temp Cycle		P3100SALRP-A	DO-214AA	77	182151	JESD22- A10168/500/1000 hours at Tj = 85C/85% RH with device reverse biased at 80% VDRM , not excess 100v	JESD22-A101	0 failures at 1008hours
		P0220SALRP-A	DO-214AA	77	183071			
		P0080S1BLRP	DO-214AC	40	182153			
		P1800S1ALRP	DO-214AC	40	183070			
		P0640S1BLRP	DO-214AC	40	183070			
		PLED18S	DO-214AA	40	183070			
		P0641CA2LRP	DO-214AA	40	183071			
		P3100S3NLRP	DO-214AB	40	174392			
		P3100S3NLRP	DO-214AB	40	174392			
		P3100S3NLRP	DO-214AB	40	174392			
		P0080S1BLRP	DO-214AC	40	182153	JESD22- A10168/500/1000 hours at Tj = 85C/85% RH with device reverse biased at 80% VDRM , not excess 52v	JESD22-A101	0 failures at 1008hours
		P1800S1ALRP	DO-214AC	40	183070			
		P0640S1BLRP	DO-214AC	40	183070			
		PLED18S	DO-214AA	40	183070			
		P0641CA2LRP	DO-214AA	40	183071			
		P3100S3NLRP	DO-214AB	40	174392			
		P3100S3NLRP	DO-214AB	40	174392			
		P3100S3NLRP	DO-214AB	40	174392			
		P3100S3NLRP	DO-214AB	40	174392			
		P3100S3NLRP	DO-214AB	40	174392			
		P0080S1BLRP	DO-214AC	40	182153	1000cycles, -55°C & +150°C , dwell time 15mins	JESD22-A104	0 failures at 1000cycles
		P1800S1ALRP	DO-214AC	40	183070			
		P0640S1BLRP	DO-214AC	40	183070			
		P3100SALRP-A	DO-214AA	77	182151			
		P0220SALRP-A	DO-214AA	77	183071			
		PLED18S	DO-214AA	40	183070			
		P0641CA2LRP	DO-214AA	40	183071			
		P3100S3NLRP	DO-214AB	40	174392			
		P3100S3NLRP	DO-214AB	40	174392			
		P3100S3NLRP	DO-214AB	40	174392			
UHAST	P0080S1BLRP	DO-214AC	40	182153	TA=130C/85%RH 96H	EIA/JESD22- A102B	0 failures at 96hours	
	P1800S1ALRP	DO-214AC	40	183070				
	P0640S1BLRP	DO-214AC	40	183070				
	P3100SALRP-A	DO-214AA	77	182151				
	P0220SALRP-A	DO-214AA	77	183071				
	PLED18S	DO-214AA	40	183070				
	P0641CA2LRP	DO-214AA	40	183071				
	P3100S3NLRP	DO-214AB	40	174392				
	P3100S3NLRP	DO-214AB	40	174392				
	P3100S3NLRP	DO-214AB	40	174392				
IOL	PLED18S	DO-214AA	40	183070	ΔTjP=100°C Power on: 2/5 minutes Power off: 2/5 minutes Testing cycle: 15000 cycles	MIL-STD-750-1	0 failures at 504hours	
Resistance to Solder Heat (RSH)	P0080S1BLRP	DO-214AC	30	182153	260°C, 10 seconds	JESD22- B106	0 failure after RSH	
	P1800S1ALRP	DO-214AC	30	183070				
	P0640S1BLRP	DO-214AC	30	183070				
	P3100SALRP-A	DO-214AA	30	182151				
	P0220SALRP-A	DO-214AA	30	183071				
	PLED18S	DO-214AA	30	183070				
	P0641CA2LRP	DO-214AA	30	183071				
	P3100S3NLRP	DO-214AB	30	174392				
	P3100S3NLRP	DO-214AB	30	174392				
	P3100S3NLRP	DO-214AB	30	174392				
MSL	P0080S1BLRP	DO-214AC	11	182153	MSL LEVEL1	JESD-020D	0 failure after MSL	
	P1800S1ALRP	DO-214AC	11	183070				
	P0640S1BLRP	DO-214AC	11	183070				
	P3100SALRP-A	DO-214AA	11	182151				
	P0220SALRP-A	DO-214AA	11	183071				
	PLED18S	DO-214AA	11	183070				
	P0641CA2LRP	DO-214AA	11	183071				
	P3100S3NLRP	DO-214AB	11	174392				
	P3100S3NLRP	DO-214AB	11	174392				
	P3100S3NLRP	DO-214AB	11	174392				



MTBF Calculation

Estimate of Failure Rate, MTBF, FITS for a Given Operation Temperature (**See note**)
EMC 2nd source -SMA(DO-214AC)

Temp °C	% FR/khrs	MTBF (K)	FITS
30	0.00000760	13163062	0.07597
55	0.000140319	712659.5	1.403195
85	0.002713363	36854.63	27.13363
100	0.0099802	10020	99.802
125	0.070331476	1421.839	703.3148

EMC 2nd source -SMB(DO-214AA)

Temp °C	% FR/khrs	MTBF (K)	FITS
30	0.00000570	17550749	0.056978
55	0.00010524	950212.6	1.052396
85	0.002035022	49139.51	20.35022
100	0.0074851	13360	74.851
125	0.05274861	1895.78	527.486068

EMC 2nd source -SMC(DO-214AB)

Temp °C	% FR/khrs	MTBF (K)	FITS
30	0.00000760	13163062	0.07597
55	0.000140319	712659.5	1.403195
85	0.002713363	36854.63	27.13363
100	0.0099802	10020	99.802
125	0.070331476	1421.839	703.3148

Note: The **Mean-Time-Between-Failure** (MTBF) in hours and the percent failure rate per 1000 hours (%FR/khr) are computed at a 60% confidence level using the chi square method and the Arrhenius derating model for various junction operating temperatures. For the calculations, a value of 1 eV was used for the activation energy.

7.0 Electrical Characteristic Summary:

There is no change in electrical characteristics.



8.0 Changed Part Identification:

NA

9.0 Recommendations & Conclusions:

Based on the test results, it is determined that the EMC 2nd source is qualified and certified for production of Littelfuse DO-214AA DO-214AB DO-214AC SIDACTor Product Series.

10.0 Approvals:

Hellen Yang
Product Manager
Littelfuse, Inc.

SIDACtor EMC 2nd source
P0080S1ALRP
P0080S1BLRP
P833P0080S1BLRP
P0220S1ALRP
P0220S1BLRP
P0300S1ALRP
P0300S1BLRP
P863P0300S1BLRP
P0640S1ALRP
P0640S1BLRP
P1800S1ALRP
P1800S1BLRP
P2300S1ALRP
P2300S1BLRP
P2600S1ALRP
P2600S1BLRP
P3100S1ALRP
P3100S1BLRP
P3500S1ALRP
P3500S1BLRP
P869P0080S1CLRP
P0080S3NLRP
P0300S3NLRP
P0640S3NLRP
P0720S3NLRP
P0900S3NLRP
P1100S3NLRP
P1300S3NLRP
P1500S3NLRP
P1900S3NLRP
P2300S3NLRP
P2600S3NLRP
P3100S3NLRP
P3500S3NLRP
P3800S3NLRP
P0640SALRP
P659P0640SARP
P712P0640SARP
P0641SALRP
P0720SALRP
P0721SALRP
P506P0721SALRP
P0900SALRP
P0901SALRP
P1100SALRP
P675P1100SARP
P688P1100SARP
P1101SALRP
P1200SALRP

P811P1200SALRP
P1300SALRP
P697P1300SARP
P1301SALRP
P1500SALRP
P1701SALRP
P1800SALRP
P779P1800SALRP
P2000SALRP
P776P2000SALRP
P2100SALRP
P2300SALRP
P2500SALRP
P2600SALRP
P3100SALRP
P651P3100SARP
P707P3100SARP
P3500SALRP
P716P3500SARP
P4500SBLHLP
P887P4500SBLHLP
PLED64S
PLED70S
PLED90S
PLED110S
PLED130S
PLED150S
PLED180S
PLED230S
PLED260S
PLED310S
PLED350S
PLED380S
P874PLED480S
P880PLED480S
P0640SBLRP
P0640SBLRP-B
P0720SBLRP
P0900SBLRP
<i>P858P0900SCLRP</i>
P1100SBLRP
P1200SBLRP
P1300SBLRP
P1500SBLRP
<i>P1500SBLRP-N</i>
P1800SBLRP
P2000SBLRP
P2100SBLRP
P2300SBLRP
P686P2300SBRP

P708P2300SBRP
<i>P2300SBLRP-N</i>
P2500SBLRP
P2600SBLRP
P591P2600SBLRP
P653P2600SBRP
P831P2600SBLRP
P3100SBLRP
P486P3100SBRP
P640P3100SBRP
P654P3100SBRP
P654P3100SBRPH
P654P3100SBRPHF
P809P3100SBLRP
P842P3100SBLRP
<i>P3100SBLRP-</i>
P3100SBLRPH
P3500SBLRP
P496P3500SBLRP
P655P3500SBRP
P770P3500SBLRP
P784P3500SBLRP
3T130BLC-CSMT
3T130BLC-CSMT7
3T150B-CSMT
3T150B-CSMT7
3T150BLC-CSMT
3T150BLC-CSMT7
3T180B-CSMT
3T180B-CSMT7
3T180BLC-CSMT
3T180BLC-CSMT7
3T230B-CSMT7
3T310B-CSMT7
3T350A-CSMT
TSMBJ0510C-7P
PP0640SA-LF-T
PP0720SA-LF-T
PP1100SA-LF-T
PP1800SA-LF-T
PP2300SA-LF-T
PP2600SA-LF-T
PP3500SA-LF-T
PP0300SB-LF-T
PP0640SB-LF-T
PP0800SB-LF-T
PP1100SB-LF-T
PP2300SB-LF-T
PP2600SB-LF-T
PP3100SB-LF-T

PP3500SB-LF-T
3T064ALC-CSMT
3T064ALC-CSMT7
3T072ALC-CSMT
3T072ALC-CSMT7
3T080ALC-CSMT
3T080ALC-CSMT7
3T110A-CSMT
3T110A-CSMT7
3T110ALC-CSMT
3T110ALC-CSMT7
3T130A-CSMT
3T130A-CSMT7
3T130ALC-CSMT
3T130ALC-CSMT7
3T150A-CSMT
3T150A-CSMT7
3T150ALC-CSMT
3T150ALC-CSMT7
3T180A-CSMT
3T180A-CSMT7
3T180ALC-CSMT
3T180ALC-CSMT7
3T230A-CSMT7
3T230ALC-CSMT
3T230ALC-CSMT7
3T260A-CSMT
3T260ALC-CSMT
3T260ALC-CSMT7
3T310A-CSMT
3T310A-CSMT7
3T310ALC-CSMT
3T310ALC-CSMT7
3T350A-CSMT7
3T400A-CSMT
3T400A-CSMT7
3T064BLC-CSMT
3T064BLC-CSMT7
3T072BLC-CSMT
3T072BLC-CSMT7
3T080BLC-CSMT
3T080BLC-CSMT7
3T110B-CSMT
3T110B-CSMT7
3T110BLC-CSMT
3T110BLC-CSMT7
3T130B-CSMT
3T130B-CSMT7
P2000SCLRP
P777P2000SCLRP

P2000SCMCLRP
P2100SCLRP
P2100SCMCLRP
P2300SCLRP
P762P2300SCLRP
P762AP2300SCLRP
P2300SCMCLRP
P2500SCLRP
P2500SCMCLRP
P469P2600SCLRP
P2600SCLRP
P820P2600SCLRP
P759P2600SCLRP
P759AP2600SCLRP
P766P2600SCLRP
P766AP2600SCLRP
P774P2600SCLRP
P875P2600SCLRP
P2600SCMCLRP
P3100SCLRP
P440P3100SCRCP
<i>P3100SCLRP-</i>
P3100SCMCLRP
P3100SDLHLRP
P3500SCLRP
P794P3500SCLRP
P681P3500SCRCP
<i>P3500SCL-N</i>
P3500SCMCLRP
P4500SCLRP
P4500SCMCLRP
<i>P4500SDLHLRP</i>
P827P3100SCLRP
P1800STLRP
P2300STLRP
P2600STLRP
P3100STLRP
P3500STLRP
P3100SCLRP-ER
SMTBJ050B
SMTBJ070B
SMTBJ100B
SMTBJ200B
3T110C-CSMT
3T110C-CSMT7
3T130C-CSMT
3T130C-CSMT7
3T150C-CSMT
3T150C-CSMT7
3T180C-CSMT

3T230C-CSMT
3T230C-CSMT7
3T260C-CSMT
3T310C-CSMT
3T310C-CSMT7
3T350C-CSMT
3T400C-4T7
3T400C-CSMT
3T400C-CSMT7
PP0640SC-LF-T
PP0800SC-LF-T
PP1100SC-LF-T
PP1500SC-LF-T
PP1800SC-LF-T
PP2300SC-LF-T
PP2600SC-LF-T
PP3100SC-LF-T
PP3500SC-LF-T
PP4500SD-LF-T
TSMBJ1022C-TP
3T064CLC-CSMT
3T064CLC-CSMT7
3T072CLC-CSMT
3T072CLC-CSMT7
3T080CLC-CSMT
3T080CLC-CSMT7
3T110CLC-CSMT
3T110CLC-CSMT7
3T130CLC-CSMT
3T130CLC-CSMT7
3T150CLC-CSMT
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3T180C-CSMT7
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3T260CLC-CSMT7
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3T310CLC-CSMT7
3T350C-CSMT7
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P0640SDLRP
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P0720SDLRP
P813P0720SDLRP
P767P0720SDLRP

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P0900SDLRP
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3T260BLC-CSMT
3T260BLC-CSMT7
P765AP3100SDLRP
P3500SDLRP
P692P3500SDRP
P773P3500SDLRP
P884P3500SDLRP
PP1100SD-LF-T
P0641SCLRP
P0721SCLRP
P618P3100SCRP
P641P3100SCRP
P754P3100SCLRP
P754AP3100SCLRP
P754BP3100SCLRP
P754CP3100SCLRP
P754DP3100SCLRP
3T310BLC-CSMT
3T310BLC-CSMT7
3T350B-CSMT
3T350B-CSMT7
3T400B-CSMT
3T400B-CSMT7
P0080SALRP
<i>P817P0080SALRP</i>
P0080SAMCLRP
<i>P0080SAMCLRP-</i>
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P0220SAMCLRP
P0240SBLRP
P0300SALRP
P566P0300SALRP
P658P0300SARP
P695P0300SARP
P0300SAMCLRP
<i>P0300SAMCLRP-HRB</i>
P821P0080SCLRP
P0181SALRP
PLED6S
PLED6US
PLED9S
PLED9US
P871PLED9US
PLED13S

PLED18S
PLED13US
PLED18US
PLED35US
PL865PLED18US
P0080SALRP-ER
P0080SBLRP
P678P0080SBRP
P792P0080SBLRP
P857P0080SCLRP
P0080SBMCLRP
P0220SBLRP
P0220SBMCLRP
P0300SBLRP
P0300SBMCLRP
PP0300SB-LF-T
P0080SCLRP
P763P0080SCLRP
P763AP0080SCLRP
P0080SCMCLRP
P0080SCMCLRP-N
<i>P0080SCLRP-N1</i>
<i>P0080SCLRP-N2</i>
P825P3500SCMCLRP
P0220SCLRP
P0220SCMCLRP
P0300SCLRP
P761P0300SCLRP
P761AP0300SCLRP
P931WRP
P0300SCMCLRP
P691P0300SCMCRP
<i>P0300SCMCLRP-HRB</i>
<i>P0300SCLRP-N1</i>
<i>P0300SCLRP-N2</i>
P0640SCLRP
P676P0640SCR
P764P0640SCLRP
P764AP0640SCLRP
P832P0640SCLRP
<i>P0640SCLRP-</i>
P0640SCMCLRP
<i>P0640SCLRP-N1</i>
<i>P0640SCLRP-N2</i>
<i>P868P0640SCLRP</i>
<i>P873P0640SCLRP</i>
<i>P872P0720SBLRP</i>
P0720SCLRP
P755P0720SCLRP
P755AP0720SCLRP

P755BP0720SCLRP
P0720SCMCLRP
<i>P0720SCLRP-N</i>
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P626P0900SCLRP
P0900SCMCLRP
P1100SCLRP
P689P1100SCR
P698WRP
P923WRP
P1100SCMCLRP
<i>P1101SCLRP-N</i>
P1200SCLRP
<i>P1200SCLRP-N</i>
P1200SCMCLRP
P1300SCLRP
P925WRP
P1300SCMCLRP
P1500SCLRP
P753P1500SCLRP
P753AP1500SCLRP
P753BP1500SCLRP
P753CP1500SCLRP
P753DP1500SCLRP
P926WRP
P927WRP
P465P1500SCR
<i>P1500SCLRP-N1</i>
<i>P1500SCLRP-N2</i>
P1500SCMCLRP
<i>P1500SCMCL-N</i>
P1800SCLRP
P677P1800SCR
<i>P1800SCLRP-N</i>
<i>P1800SCLRP-</i>
P1800SCMCLRP
P923CRP
P1100SDLRP
P698CRP
P806P1100SDLRP
P1300SDLRP
P810P1300SDLRP
P925CRP
P1500SDLRP
P376P1500SCR
P674P1500SCR
P768P1500SDLRP
P768AP1500SDLRP
P926CRP
P927CRP

P931CRP
P1800SDLRP
P2300SDLRP
P2600SDLRP
P746P2600SDRP
P746AP2600SDRP
P3100SDLRP
P3100SCHRP
P765P3100SDLRP
P0901SCLRP
P1101SCLRP
P1201SCLRP
P856P1201SCLRP
P1301SCLRP
P465P1500SCRCP
P1701SCLRP
P0641SDLRP
P0721SDLRP
<i>P0901SDLRP</i>
P1101SDLRP
P829P1101SDLRP
P829AP1101SDLRP
P1301SDLRP
<i>P1701SDLRP</i>
P2601SDLRP
P3101SDLRP
P0642SALRP
P0722SALRP
P0902SALRP
P1102SALRP
P1302SALRP
P1502SALRP
P1802SALRP
P2302SALRP
P2602SALRP
P3002SALRP
P3502SALRP
P4202SALRP
P4802SALRP
P6002SALRP
<i>P6002SALRP-HM</i>
P7002SALRP
P0642SBLRP
P0722SBLRP
P0902SBLRP
P1102SBLRP
P1302SBLRP
P1502SBLRP
P1802SBLRP
P2302SBLRP

P2602SBLRP
P3002SBLRP
P3502SBLRP
P4202SBLRP
P4802SBLRP
P6002SBLRP
P7002SBLRP
P0642SCLRP
P0722SCLRP
P0902SCLRP
P1102SCLRP
P1302SCLRP
P1502SCLRP
P1802SCLRP
P2302SCLRP
P2602SCLRP
P3002SCLRP
P3502SCLRP
P4202SCLRP
P772P4202SCLRP
P797P4202SCLRP
P798P4202SCLRP
P4802SCLRP
P6002SCLRP
P7002SCLRP
P862P7002SCLRP
P6002SCLHLP
P9002SBLRP
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P0721CA2LRP
P0901CA2LRP
P1101CA2LRP
P1301CA2LRP
P1501CA2LRP
P1701CA2LRP
P0641CB2LRP
P0721CB2LRP
P0901CB2LRP
P1101CB2LRP
P1301CB2LRP
P1501CB2LRP
P1701CB2LRP
A0609CA2LRP
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P0720SALRP-A
P0900SALRP-A
P1100SALRP-A
P1300SALRP-A
P1500SALRP-A
P1800SALRP-A

P2100SALRP-A
P2300SALRP-A
P2600SALRP-A
P3100SALRP-A
P0080SALRP-A
P0220SALRP-A
P0300SALRP-A
PLED6S-A
PLED6US-A
PLED9S-A
PLED9US-A
PLED13S-A
PLED13US-A
PLED18S-A
PLED18US-A
PLED35US-A
3T310B-CSMT
P3100SCLRP841
<i>P3100SCL-N</i>
P793P3500SBLRP
P3500SBLRP-S
P838P3500SCLRP
P4500SBLRP
P839P4500SCLRP
P844P4500SCLRP
P4500SCLHLRP
PDT5061-T
SPH0004CRP
P3100SXLRP
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SMTBJ056A-006
SMTBJ108A-006
SMTBJ120A
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SMTBJ170A
SMTBJ180A-006
SMTBJ200A
SMTBJ216A-006
SMTBJ240A
SMTBJ056A
3T064ALC-86SMT
3T064BLC-89T7
3T230A-86SMT
3T230A-CSMT
3T230B-CSMT
3T260A-CSMT7
3T260B-CSMT
3T260B-CSMT7
A0609SCLRP
P760LRP

P760ALRP
A0710SCLRP
A0709SCLRP