



Qualification Report

TLV62568DRL and TLV62568PDRL in SOT-563 Package (RFAB, JCAP B2, JCET C8)

Approve Date 11-Apr-2017

Updated 04/21/2017-Added QBS Data

Product Attributes

Attributes	Qual Device: TLV62568DRL	Qual Device: TLV62568PDRL	QBS Process Reference: TLV62568DBV
Assembly Site	JCET C8	JCET C8	PHI (TIPI)
Package Family	R-PDSO-G SOT563	R-PDSO-G SOT563	R-PDSO-G SOT23
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	RFAB	RFAB	RFAB / DMOS6
Wafer Process	LBC9LV	LBC9LV	LBC9LV

- QBS: Qual By Similarity

- Qual Devices qualified at LEVEL1-260C: TLV62568PDRL, TLV62568DRL

Qualification Results

Data Displayed as: Number of lots / Total sample size / Total failed

Type	Test Name / Condition	Duration	Qual Device: TLV62568DRL	Qual Device: TLV62568PDRL	QBS Process Reference: TLV62568DBV
AC	Autoclave 121C	96 Hours	-	3/231/0	3/231/0
ED	Electrical Characterization	Per Datasheet Parameters	-	Pass	Pass
ELFR	Early Life Failure Rate, 125C	48 Hours	-	-	3/3000/0
HAST	Biased HAST, 130C/85%RH	96 Hours	-	3/231/0	3/231/0
HBM	ESD - HBM	4000V	-	-	1/3/0
CDM	ESD - CDM	1500V	-	1/3/0	2/6/0
HTOL	Life Test, 150C	300 Hours	-	3/231/0	3/231/0
HTSL	High Temp. Storage Bake, 170C	420 Hours	-	3/231/0	3/231/0
LU	Latch-up	(per JESD78)	-	3/9/0	2/12/0
PD	Physical Dimensions	--	-	3/15/0	-
SD	Surface Mount Solderability	Pb Free	-	3/66/0	-
SD	Surface Mount Solderability	Pb	-	3/66/0	-
TC	Temperature Cycle, -55/125C	700 Cycles	-	3/231/0	-
TC	Temperature Cycle, -65/150C	500 Cycles	-	3/231/0	3/231/0

- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable

- The following are equivalent HTOL options based on an activation energy of 0.7eV : 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours

- The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/1k Hours, and 170C/420 Hours

- The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles

Quality and Environmental data is available at TI's external Web site: <http://www.ti.com/>

Green/Pb-free Status:

Qualified Pb-Free(SMT) and Green

TI Qualification ID: 20160706-118348