



Qualification Report

New Product: CSD17318Q2 (GEN1.4 30V/10V)

Approve Date 17-Jul-2017

Product Attributes

Attributes	Qual Device: CSD17318Q2 ASEN	Qual Device: CSD17318Q2 UNIAT
Assembly Site	ASEN	UNIAT
Package Family	QFN/SON	QFN/SON
Flammability Rating	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	CFAB	CFAB
Wafer Process	FN03010NEG1.4	FN03010NEG1.4

- Qual Devices qualified at LEVEL1-260C: CSD58911Q2 ASEN, CSD58911Q2 UNIAT

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: CSD17318Q2 ASEN	Qual Device: CSD17318Q2 UNIAT
ED	Electrical Characterization	Per Datasheet Parameters	-	3/90/0
HBM	ESD - HBM	350 V	-	1/3/0
CDM	ESD - CDM	1000 V	-	1/3/0
HTGB	High Temperature Gate Bias 150C	1000 Hours	-	3/231/0
HTRB	High Temperature Reverse Bias 150C	1000 Hours	-	3/231/0
IOL	Intermittent Operating Life	10000 Cycles	3/231/0	3/231/0
SD	Solderability	Pb-Free	3/15/0	-
TC	Temperature Cycle, -55/125C	700 Cycles	3/231/0	3/231/0
THB	Biased Temperature and Humidity, 85C/85%RH	1000 Hours	3/231/0	3/231/0
UHASt	Unbiased HAST, 130C/85%RH	96 Hours	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 JE547 : -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

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