



Homogeneous Materials and SGS Report - SOT23 Package at Carsem

Doc no: QI-74 Rev: A01

Revision History

Rev.	Description of Change	Reason for Change
A00	Initial Release	SOT23 Homogeneous Material and SGS Report Document released for customer. SGS reports are provided on request.
A01	Specified testing site	SOT23 also released at other testing site

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1.0 Purpose and Scope

- 1.1 Purpose: To demonstrate RoHS/Green compliance per QI-1 as applicable to homogeneous materials used in SiTime SOT23 packages and to declare no substances of very high concern (SVHC) per REACH requirements.
- 1.2 Scope: All products manufactured by and for SiTime in SOT23 packages at Carsem

2.0 Reference Documents

- 2.1 SGS/ICP analysis reports provided by the homogeneous material suppliers/ assembly subcon
- 2.2 Internal References
 - 2.2.1 QI-1 SiTime green partner and RoHS/Green Compliance
 - 2.2.2 QI-80 SOT23 Composition Report

3.0 Information

- 3.1 The list of SGS reports of analysis demonstrating RoHS and Green compliance of the homogeneous materials used for SOT23 packages are attached (Table-1).
- 3.2 The SGS/ICP analysis reports for the homogeneous materials are received from the supplier (updated every year) and reviewed and maintained at SiTime.
- 3.3 Actual SGS reports can be obtained from sales support by request. Contact SiTime sales support at salesupport@sitime.com
- 3.4 As per industry standard practice (JEDEC Standard JESD46), the customer notification will be done when any major change in the material composition is implemented which affects form, fit and function. No annual updating will be done to this document. The updates to this document will be done only when,
 - 3.4.1 There is any change in the material contents of the package
 - 3.4.2 The regulation changes dictate that new analysis be done for compliance

4.0 Homogeneous Material Content Tables

Table-1 Homogeneous Material List Contained in SOT23 Package-CARSEM

Homogeneous Material	Material Name/Model	Supplier	SGS Report
Leadframe C194 with Plating	Copper/Iron/Zink	Possehl	√
CMOS Die	Silicon	TSMC	√
MEMS Die	Silicon	BOSCH	√
D/A material	Conductive epoxy	HENKEL	√
Bond wire	Copper/Palladium	NIPPON MICROMETAL	√
Encapsulation	Epoxy resin	HITACHI	√

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