

1. Product

SiC discrete products with leadfree external plating

2. Method

(1) Test condition and criteria

Whisker length after test must be within the criteria below.

Stress Type		Preconditioning Treatment	Duration	Criteria
Temperature Cycling	-55 +0/-10 °C 85 +10/-0 °C	Depends on components	1500cyc	Whisker length <45um
Temperature / Humidity Storage	30 ±2°C 60 ±3% RH		4000hr	Whisker length <40um
High Temperature Humidity Storage	55 ±3°C 85 ±3% RH		4000hr	Whisker length <40um

(2) Sample size

18 pcs total (6 pcs per test) for each package type.

3. Whisker Test result

Package	Lead Frame material	Lead finish		sample size n (pcs)	failure(s) pn (pcs)
		Method	Composition		
TO-263AB (LPTL)	Cu	electroplating	Sn-2Cu	6	0
TO-220AB			Sn	6	0
TO-220AC				6	0
TO-220FM				6	0
TO-247				6	0
TO-247N				6	0
TO-3PFM				6	0
TO-252M				6	0
TO-268-2L				6	0

Notes

- 1) The information contained herein is subject to change without notice.
- 2) Before you use our Products, please contact our sales representative and verify the latest specifications :
- 3) Although ROHM is continuously working to improve product reliability and quality, semiconductors can break down and malfunction due to various factors.
Therefore, in order to prevent personal injury or fire arising from failure, please take safety measures such as complying with the derating characteristics, implementing redundant and fire prevention designs, and utilizing backups and fail-safe procedures. ROHM shall have no responsibility for any damages arising out of the use of our Products beyond the rating specified by ROHM.
- 4) Examples of application circuits, circuit constants and any other information contained herein are provided only to illustrate the standard usage and operations of the Products. The peripheral conditions must be taken into account when designing circuits for mass production.
- 5) The technical information specified herein is intended only to show the typical functions of and examples of application circuits for the Products. ROHM does not grant you, explicitly or implicitly, any license to use or exercise intellectual property or other rights held by ROHM or any other parties. ROHM shall have no responsibility whatsoever for any dispute arising out of the use of such technical information.
- 6) The Products are intended for use in general electronic equipment (i.e. AV/OA devices, communication, consumer systems, gaming/entertainment sets) as well as the applications indicated in this document.
- 7) The Products specified in this document are not designed to be radiation tolerant.
- 8) For use of our Products in applications requiring a high degree of reliability (as exemplified below), please contact and consult with a ROHM representative : transportation equipment (i.e. cars, ships, trains), primary communication equipment, traffic lights, fire/crime prevention, safety equipment, medical systems, servers, solar cells, and power transmission systems.
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- 10) ROHM shall have no responsibility for any damages or injury arising from non-compliance with the recommended usage conditions and specifications contained herein.
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