

# **JEDEC PUBLICATION**

---

## **Guide for the Production and Acquisition of Radiation-Hardness- Assured Multichip Modules and Hybrid Microcircuits**

---

**JEP133C**

(Revision of JEP133B, March 2005)

**JANUARY 2010**

---

**JEDEC SOLID STATE TECHNOLOGY ASSOCIATION**



## NOTICE

JEDEC standards and publications contain material that has been prepared, reviewed, and approved through the JEDEC Board of Directors level and subsequently reviewed and approved by the JEDEC legal counsel.

JEDEC standards and publications are designed to serve the public interest through eliminating misunderstandings between manufacturers and purchasers, facilitating interchangeability and improvement of products, and assisting the purchaser in selecting and obtaining with minimum delay the proper product for use by those other than JEDEC members, whether the standard is to be used either domestically or internationally.

JEDEC standards and publications are adopted without regard to whether or not their adoption may involve patents or articles, materials, or processes. By such action JEDEC does not assume any liability to any patent owner, nor does it assume any obligation whatever to parties adopting the JEDEC standards or publications.

The information included in JEDEC standards and publications represents a sound approach to product specification and application, principally from the solid state device manufacturer viewpoint. Within the JEDEC organization there are procedures whereby a JEDEC standard or publication may be further processed and ultimately become an ANSI standard.

No claims to be in conformance with this standard may be made unless all requirements stated in the standard are met.

Inquiries, comments, and suggestions relative to the content of this JEDEC standard or publication should be addressed to JEDEC at the address below, or call (703) 907-7559 or [www.jedec.org](http://www.jedec.org)

Published by  
©JEDEC Solid State Technology Association 2009  
3103 North 10th Street  
Suite 240 South  
Arlington, VA 22201-2107

This document may be downloaded free of charge; however JEDEC retains the copyright on this material. By downloading this file the individual agrees not to charge for or resell the resulting material.

**PRICE: Please refer to the current  
Catalog of JEDEC Engineering Standards and Publications online at  
<http://www.jedec.org/Catalog/catalog.cfm>**

Printed in the U.S.A.  
All rights reserved

PLEASE!

DON'T VIOLATE  
THE  
LAW!

This document is copyrighted by JEDEC and may not be reproduced without permission.

Organizations may obtain permission to reproduce a limited number of copies through entering into a license agreement. For information, contact:

JEDEC Solid State Technology Association  
3103 North 10th Street  
Suite 240 South  
Arlington, VA 22201-2107  
or call (703) 907-7559