

Cree, Inc. Product Change Notification

PCN-PW072: Change of Back Metal Over-Layer Stack for CPWR Series SiC Schottky Die

Change

Effective August 2, 2018, the back metal over-layer stack for CPWR SiC Schottky die will be changed to become consistent with all currently manufactured CPW4 series SiC Schottky die produced by Wolfspeed, a Cree Company.

Change Description

The back metal over-layer stack consists of deposited metals which resides in contact with the backside Ni-ohmic layer as is illustrated in Figure 1 below.

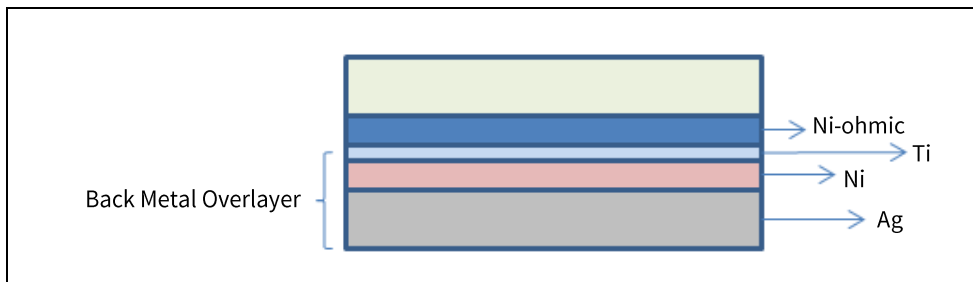


Figure 1: Back metal over-layer stack for Wolfspeed SiC Schottky diodes

The pre-existing back metal over layer stack for CPWR series SiC Schottky was as follows:

800 Angstroms	Ti
2,000 Å	Ni
6,000 Å	Ag

The back metal over-layer stack has changed in production to the following:

800 Å	Ti
8,000 Å	Ni
6,000 Å	Ag

Part Description

Affected part numbers are all those starting with “CPWR”. This includes 600V, 1A diodes on both 100mm and 150mm diameter wafers. Refer to the table below.

Part Number	Blocking Voltage (V)	Current Rating (A)	Wafer Diameter
CPWR-0600-S001B	600	1	100mm
CPWR-0600-S001B-FR6	600	1	150mm

Impact of Change

This is a major change to the product, with no impact to fit or function. The unpackaged bare die will continue to meet published datasheet specifications. Existing product specifications are wholly unaffected by this change to the chip cathode metallization.

Reason for Change

Converting the back metal over-layer for CPWR diodes will consolidate metal deposition processes across different diode technologies.

Reason for Notification

The purpose of this notification is to provide awareness to our customers of the change.

Effective Implementation Date

Implementation of this change begins on the effective date of this notice. Products which incorporate this change may be delivered to your receiving locations on or after this date.

Please respond to this PCN by indicating your approval on the included approval form at the end of this PCN, sign it and return to your local sales representative by September 9, 2018. If you have any concerns or questions, or if you require any assistance in preparing for these changes, please notify your local sales representative. In accordance with JEDEC Standard JESD46D, lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change.

Your prompt reply will help ensure a smooth and well executed transition.

Contact

Any questions or requests for additional information should be directed to your sales representative or by contacting Cree, Inc. directly at 919-287-7888, or via email at CreePower_sales@cree.com.

PCN Originator:
Name: Barbieri, T.
Title: Product Marketing Engineer, Cree Power Devices
Issued: 08/09/2018

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Disclaimer:
If we do not receive any response by the date in the PCN above we consider this as the acceptance of the PCN.

PCN-PW072 CUSTOMER APPROVAL FORM
Change in Back Metal Over-layer Stack for CPWR Series SiC Schottky Die

Please check the appropriate boxes below:

We agree with this proposed change and its schedule

We need more information:

Sender

Company:

Address/Location:

Name:

Email:

Primary Telephone:

Signature:

Fax:

Date:

Please return to your Sales Representative

Company: Cree

Address/Location:

Name:

Email: