

Final Product/Process Change Notification Document #:FPCN20930ZH Issue Date: 08 Feb 2023

Title of Change:	Qualification of Power Schottky Die Shrink for DPAK Package.		
Proposed Changed Material First Ship Date:	15 Aug 2023 or earlier if approved by customer		
Current Material Last Order Date:	N/A Orders received after the Current Material Last Order Date expiration are to be considered or orders for new changed material as described in this PCN. Orders for current (unchange material after this date will be per mutual agreement and current material invento availability.		
Current Material Last Delivery Date:	N/A The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory		
Product Category:	Active components – Discrete components		
Contact information:	Contact your local onsemi Sales Office or Danh.Trinh@onsemi.com		
PCN Samples Contact:	Contact your local onsemi Sales Office to place sample order. Sample requests are to be submitted no later than 45 days after publication of this change notification. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.		
Sample Availability Date:	20 Mar 2023		
PPAP Availability Date:	01 Mar 2023		
Additional Reliability Data:	Contact your local onsemi Sales Office or <u>ffxg4t@onsemi.com</u>		
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. The change will be implemented at 'Proposed Change Material First Ship Date' in compliance to J-STD-46 or ZVEI, or earlier upon customer approval, or per our signed agreements. onsemi will consider this proposed change and it's conditions acceptable, unless an inquiry is made in writing within 45 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com.		
Change Category			
Category	Type of Change		
Design	Die Shrink		

Description and Purpose:

This is a Final Product Change Notification announcing to customers that onsemi has qualified Power Schottky die shrink on selected automotive qualified Orderable Part Numbers (OPNs) listed in this FPCN.

Item	From	То
Die P Guard Ring shrink	4 mils	1 mil

The change will affect to Schottky DPAK Package at its assembly sites.

Products have passed reliability testing as per automotive requirements and it's proven that device performances are not affected.

There is no product marking change as a result of this change.



Reason / Motiva	tion for Change:	Product Reactivation						
Anticipated impa function, reliabil safety or manufa	The device has been qualified and validated based on the same Product Specification. The device has successfully passed the qualification tests. Potential impacts can be identified, but due to testing performed by onsemi in relation to the PCN, associated risks are verified and excluded. No anticipated impacts.							
Sites Affected:								
onsemi Sites				External Foundry/Subcon Sites				
onsemi, ISMF Malaysia					None			
Marking of Parts	/ Traceability of C	hange:	CI	ean date co	de will be advised upon of	request		
Reliability Data S QV DEVICE NAME: RMS: V83882, V85 PACKAGE: DPAK	SBR660CTT4G (Scho	ottky Rectif	ier)					
Test	Specificatio	on		Condition		Interval	Result	
HTSL	JESD22-A1	03		Та	= 175 °C	1008 hrs	0/231	
IOL	MIL-STD-750 (N	,	, ,		eltaTj = 100°C max,	15000 cyc	0/231	
тс	AEC-Q10 JESD22-A10				Toff = 2min 5°C to +150°C	•		
uHAST	JESD22-A1				, 18.8psig, unbiased	1000 cyc 96 hrs	0/231 0/231	
H3TRB	JESD22-A1				%, bias = 80% of rated V	1008 hrs	0/231	
HTRB	JESD22-A1			Ta = 80 °C, bias = 100% of rated V		1008 hrs	0/231	
PC	J-STD-020 JESD				1 @ 260 °C		0/924	
RSH	JESD22- B1				65°C, 10 sec		0/90	
SD	JSTD002			Ta = 245°C, 10 sec			0/45	
 2. Open the download 3. Click on the paper of 4. Then click on the a 	: v of the PCN to your cor ded pdf copy of the PCN clip icon available on th	e menu prov	vided in the	left/bottom	portion of the screen to reveal	the Attachment field		
	ristics are not impact							

List of Affected Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the **PCN Customized Portal**.

Current Part Number	New Part Number	Qualification Vehicle
NRVBD1035VCTLT4G	N/A	SBR660CTT4G