



PRODUCT CHANGE NOTICE (PCN)

PART NUMBER(S): SP7616ER-L SP7616ER-L/TR	PCN No.: 09-0528-01 DATE: 05/28/09
PART DESCRIPTION: High Accuracy 4-Channel Low Side LED Driver for CCFL Replacement	
LEVEL OF CHANGE: <input type="checkbox"/> Level I, Customer Approval. <input checked="" type="checkbox"/> Level II, Customer Information.	
PRODUCT ATTRIBUTE AFFECTED: <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input type="checkbox"/> Material Change <input type="checkbox"/> Design Change <input type="checkbox"/> Process Change <input type="checkbox"/> Other, Explain: </div> <div style="width: 45%;"> <input checked="" type="checkbox"/> Data Sheet Change <input type="checkbox"/> Package Change <input type="checkbox"/> Packing / Shipping </div> </div>	
DESCRIPTION OF THE PROPOSED CHANGE: <ul style="list-style-type: none"> Ambient temperature range deleted Shutdown Supply Current maximum changed from 40uA to 60uA. LED Current Matching changed from "relative to channel 2" to "Relative to average of all 4 channels" Maximum LED current per channel: Rset changed from 15.38kohms to 17.4kohms. 60mA moved from maximum to typical. The intent of this specification is to let the customer know the maximum intended current per channel. Dropout voltage changed from 0.2V Typical and 0.3V Max to 0.3V Typical and 0.45V maximum. Deleted: Output/Iset Current multiplication ratio Added: Output Current Multiplication Ratio $K = I_{LED} \cdot R_{SET}$ 1032 → 1118 room 1000 → 1130 $0^{\circ}C \leq T_J \leq 125^{\circ}C$ As a result, the parameter "I_{SET} Voltage" becomes a typical. Deleted: I_{SET} Voltage minimum and maximum "PWM Dimming Frequency Range" and "PWM Duty Cycle Range" changed from specifications to typicals. There is no practical minimum frequency and minimum and maximum duty cycle are not well described by a specification. Added: Electrical characteristic curves "Duty Cycle Linearity at 1kHz" and "Duty Cycle Linearity at 5kHz" Changed applications section title from "VCC pin Considerations" to "VIN CONSIDERATIONS (IMPORTANT)". Added critical information about performance in brown out conditions where Vin is between 1.5V and 0.5V. 	
REASON FOR CHANGE: To improve manufacturability of these products as a result of process changes.	

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DATE OF SAMPLES AVAILABLE: N/A	DATE OF QUALIFICATION COMPLETED: April 2009
ESTIMATED CHANGE DATE OR DATE CODE: Immediate	SUPPORTING DATA: Characterization data
<input checked="" type="checkbox"/> STANDARD DISTRIBUTION <input type="checkbox"/> CUSTOM DISTRIBUTION	
PERSON TO CONTACT WITH QUESTIONS: LISA BEDARD Exar Corporation 1 Holiday Avenue West Tower, Suite 450 Pointe-Claire, Quebec H9R 5N3 Tel: (514) 429-1010 ext 210 Fax: (514) 695-2548 Please acknowledge receipt of this PCN.	

Acknowledged:

Signature

Printed Name

Company

Title

Date

Comments: _____

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