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:
[ ] Level I, Customer Approval.  [ X ] Level II, Customer Information.

PRODUCT ATTRIBUTE AFFECTED:
[ ] Material Change  [ X ] Data Sheet Change
[ ] Design Change  [ ] Package Change
[ ] Process Change  [ ] Packing / Shipping
[ ] Other, Explain:

DESCRIPTION OF THE PROPOSED CHANGE:
• 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: Rs set 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}•R_{SET}
• 1032 → 1118 room
• 1000 → 1130 0°C ≤ T_{J} ≤ 125°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.
<table>
<thead>
<tr>
<th>DATE OF SAMPLES AVAILABLE:</th>
<th>DATE OF QUALIFICATION COMPLETED:</th>
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<tbody>
<tr>
<td>N/A</td>
<td>April 2009</td>
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<table>
<thead>
<tr>
<th>ESTIMATED CHANGE DATE OR DATE CODE:</th>
<th>SUPPORTING DATA:</th>
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<tr>
<td>Immediate</td>
<td>Characterization data</td>
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| [X] STANDARD DISTRIBUTION | [ ] CUSTOM DISTRIBUTION |

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Please acknowledge receipt of this PCN.

Acknowledged:

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Printed Name

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Company

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Title

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Date

Comments: __________________________________________________________

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