

11th April 2025

To: Valued Customer

From: Littelfuse Product Management

Subject: Nano<sup>2</sup> 0456040.DR SMD Fuse

This is a 60-day PCN.

PCN # : EFU135-22

Please be noticed that Littelfuse will be enhancing the electrical performance of the existing Nano<sup>2</sup> 456 series 40A fuse, specifically the voltage rating, interrupt rating and I<sup>2</sup>t. Affected Part number is **0456040.DR**.

Please see below table:

Part No.	0456040.DR		
Charaterictics	FROM	TO	Remarks
Fuse Category	Fast Acting	Fast Acting	Same
Fuse Current Rating	40A	40A	Same
Size	12.5mm x 4.5mm	12.2mm x 4.5mm	Similar
Height	4.5mm	4.5mm	Same
Current Carrying / OL Gate Specs			
100%	4 hours Min	4 hours Min	Same
200%	60 secs Max	60 secs Max	Same
Voltage Rating	72VDC	80VDC	Higher Voltage Rating
Interrupting Rating	180A @ 72VDC 600A @ 60VDC	600A @ 80VDC	Higher Interrupting Rating
Resistance	0.00105 Ohms	0.0013 Ohms	Higher resistance
I <sup>2</sup> T (@ 8msec BT)	191 A <sup>2</sup> secs	1700 A <sup>2</sup> secs	Higher I <sup>2</sup> t value
Voltage Drop	55 mV	110 mV	Higher voltage drop
Operating T	-55°C to 125°C	-55°C to 125°C	Same
Reflow Peak T	260°C Max	260°C Max	Same
Agency Approval	cURus	cURus	Same
Fuse Marking	LF 40A	LF 40A	Same
			

There will be no changes to the part number. Validation report and samples for the part are available upon request.

**Timeframe**

The effective date of this change is **June 16, 2025**. It will be a running change within production, and will be applied on the effectivity date.

**Affected Part number**

0456040.DR

Should there be further clarifications or concerns re: this, please contact your local Littelfuse Sales Office or Product Management Team to help you.

Sincerely,

John Emmanuel C. Semana  
Product Manager – Asia EBU-OC  
Littelfuse Inc.  
[jsemana@littelfuse.com](mailto:jsemana@littelfuse.com)