

Design Change Notification

December 29th, 2021

To: Sanyo Denki America Cooling Distributors

Product: BLDC FAN MOTOR

Model: San Ace 60 (9GA) 60mm sq. x 10mm thick

(Please refer Attached Sheet for a complete part number list.)

SANYO DENKI CO., LTD.
Design Dept., Cooling Systems Div.

Approved	Checked	Designed
		

SANYO DENKI America, Inc.
Cooling Systems Division

No.	Contents	Before Change	After Change	Description
1	Motor drive IC, electronic parts, Motor Windings and PWB	Use motor drive IC manufactured by ON-Semiconductor.	Use motor drive IC manufactured by Toshiba.	Change to the motor drive IC due to discontinuation of production by the semiconductor manufacturer. Also change to some electric parts except IC, Motor windings and PWB due to the change of the motor drive IC.
2	Specifications	See the Attached Sheet.	See the Attached Sheet.	
3	Implementation Date			Implementation Date: From October, 2022 production (Estimated). Please note that the changeover schedule to new IC may change according to the number of products in the inventory.

No. A0052541 - Attached Sheet 1

[MODEL LIST]

San Ace 60(9GA) – 60mm x 10mm thick

MODEL	Change contents
9GA0612G9001	Attached Sheet 2
9GA0612G9002	
9GA0612G9003	
9GA0612G9004	
9GA0612G9005	
9GA0612G9006	
9GA0612H9001	
9GA0612H9002	
9GA0612H9004	
9GA0612H9005	
9GA0612H9006	
9GA0612H9008	
9GA0612P9G001	Attached Sheet 3
9GA0612P9G003	
9GA0612P9G004	
9GA0612P9G005	

No. A0052541 - Attached Sheet 2

[MODEL]

9GA0612G9001, 9GA0612G9002, 9GA0612G9003, 9GA0612G9004, 9GA0612G9005, 9GA0612G9006,
 9GA0612H9001, 9GA0612H9002, 9GA0612H9004, 9GA0612H9005, 9GA0612H9006, 9GA0612H9008,

[Contents of change]

	Before Change	After Change
Motor drive IC	LB11970 By On-semiconductor	TC78B002 By Toshiba
Operating voltage	No change	
Electrical current	No change	
Speed	No change	
Operating temp.	No change	
Sound pressure level	No change	
Control terminal	Non-applicable	
Air flow – static pressure character	No change	
PWM duty cycle - Speed characteristic	Non-applicable	
Sensor spec.	No change	

No. A0052541 - Attached Sheet 3

[MODEL]

9GA0612P9G001, 9GA0612P9G003, 9GA0612P9G004

[Contents of change]

	Before Change	After Change
Motor drive IC	LB11970 By On-semiconductor	TC78B002 By Toshiba
Operating voltage	No change	
Electrical current	No change	
Speed	No change	
Operating temp.	No change	
Sound pressure level	No change	
Control terminal	No change	
Air flow – static pressure character	No change	
PWM duty cycle - Speed characteristic	2000 +/- 600 min-1 @ 20% PWM duty Refer to below for characteristic	2000 +/- 600 min-1 @ 30% PWM duty Refer to below for characteristic
Sensor spec.	No change	

