

PCN# 3906

Product/Process Change Notification (PCN)					
Customer: Solid State Supplies		Date: March 4, 2010			
Customer P/N and/or Lot# effected:	A3906SESTR-T				
Originator: Scott Mitti	Phone: 508 853-5627	Fax: 508 853-7895			
Duration of Change:	Permanent	Temporary			
Summary description of change:	Part Change	Process Change			
Output Resistance of output drivers -	- based on recent product perf	Formance Allegro is changing the			

Output Resistance of output drivers – based on recent product performance Allegro is changing the output resistance specification of the 3906 by reducing the Source driver maximum from 0.68 ohms to 0.60 ohms, and increasing the Sink driver maximum from 0.68 ohms to 0.74 ohms. These changes effectively improve the on-resistance specification of the relevant half-bridge by 0.02 ohms.

What is the part or process changing from (provide details)?

Allegro is changing the output resistance specification of the 3906 by reducing the Source driver maximum from 0.68 ohms and increasing the Sink driver maximum from 0.68 ohms.

Output Resistance		Source driver, I _{OUT} = 400 mA , V _{BB} = 3 V, T _J = 25°C	-	0.52	0.68	Ω
		Source driver, I _{OUT} = 400 mA , V _{BB} = 3 V, T _J = 85°C	-	0.710	ı	Ω
		Sink driver, I _{OUT} = 400 mA, V _{BB} = 3 V, T _J = 25°C	-	0.52	0.68	Ω
		Sink driver, I _{OUT} = 400 mA, V _{BB} = 3 V, T _J = 85°C	-	0.710	-	Ω

What is the part or process changing to (provide details)?

Allegro is changing the output resistance specification of the 3906 by reducing the Source driver maximum to 0.60 ohms and increasing the Sink driver maximum to 0.74 ohms.

Output Resistance	R _{DS(on)}	Source driver, I_{OUT} = 400 mA , V_{BB} = 3 V, T_{J} = 25°C	-	0.52	0.60	Ω
		Source driver, I_{OUT} = 400 mA , V_{BB} = 3 V, T_{J} = 85°C	-	0.78	ı	Ω
		Sink driver, I _{OUT} = 400 mA, V _{BB} = 3 V, T _J = 25°C	-	0.62	0.74	Ω
		Sink driver, I _{OUT} = 400 mA, V _{BB} = 3 V, T _J = 85°C	_	0.93	_	Ω



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Describe how this change affects the customer:

These changes effectively improve the on-resistance specification of the relevant half-bridge by 0.02 ohms.

Is a PPAP update required?	Yes	No <u> </u>
Is reliability testing required?	Yes	No <u>√</u> _
Target implementation date: March 1, 2010		
Estimated Date of fist shipment: March 1, 2010	0	
Expected sample availability date: N/A		
	Yes Date Re	equired
Customer Approval Required	No ✓ For Not	rification Only