



PCN# : P556AAB
Issue Date : May. 28, 2015

Information Only Notification

This is to inform you that a change is being made to the following products.

This is a minor change that has no impact on product quality, reliability, electrical or mechanical performance. Affected products will remain fully compliant to all published specifications. Notification is being made for informational purposes only and there is no approval required. Products incorporating this change may be shipped interchangeably with existing unchanged products.

Please contact your local Customer Quality Engineer if you have any questions regarding this notification. Alternatively, you may send an email request for information to PCNSupport@fairchildsemi.com.

Implementation of change:

Expected First Shipment Date for Changed Product : May. 26, 2015

Expected First Date Code of Changed Product : 1522

Description of Change (From) :

Datasheet Change:

1. Continuous Id (Drain Current) at Tc=25C is 50A.
2. There is no continuous Id at Tc=100C in datasheet.
3. Pulse Id (Drain Current) is 40A.
4. There is no Note4 and Note5
5. In Figure 10, package limit is specified.
6. Figure 11, Forward Bias Safe Operating Area (SOA), calculation based on thermal data.

Description of Change (To) :

Following new rule:

1. Update continuous Id (Drain Current) at Tc=25C to 51A.
2. Add continuous Id (Drain Current) at Tc=100C to 27A.
3. Update Pulse Id (Drain Current) to 164A.
4. Add Note4 and Note5 on page 2.

Note 4: Pulsed Id, please refer to Figure 11 SOA graph for more details.

Note 5: Computed continuous current limited to Max Junction Temperature only, actual continuous current will be limited by thermal & electro-mechanical application board design.

5. Remove "package limited" reference in Figure 10.
6. Figure 11, Forward Bias Safe Operating Area (SOA) updated based on actual test data.

Reason for Change:

This is a datasheet change only to update Drain Current (ID), continuous at Tc=25C and 100C and pulsed ID based on updated data. Update the Safe Operating Area (SOA) based on actual test data as previously the SOA graphs were based on thermal data only.

Affected Product(s): Please refer to the list of affected products in the addendum attached in the PCN email you received. This list is based on an analysis of your company's procurement history.

Appendix A: Changed Products

DIGI-KEY : DIGI-KEY

PCN Number : P556AAB

Customer Name : DIGI-KEY CORPORATION

Product	Customer Part Number	BBB	Drawing
FDD86250		Y	N