



Product Change Notices

PCN No.: 20131201

Date: December 10, 2013

Subject: Add new green mold compound for TO-92 package series products

This is to inform you that new green mold compound SP-260 will be applied to all the AME's products of TO-92 package with below conditions :

1. AME to ensure " Electrical Characteristic" of new material of compound on the TO-92 is 100% meet compliance of AME specifications.
2. AME had qualified this new material package with reliability test.

This notification is for your information and concurrence.

If you require AME Qual/Rel data or samples to qualify this change, please contact AME, Inc. directly or through AME's authorized Sales Representative or Distributor.

Please note this PCN will be effective 30 days after the issuing date automatically
If we do not receive any response, comment or questions from you.

If you have any questions concerning this change, please contact:

PCN Originator:

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The expected 1st affected shipment date is 1/11/2014

Reason of Change:

Add mold compound SP-260 to ensure the sufficient material source from supplier.

REL-TO-92 -GP-B



Qual/REL Report:

[PR130802_BCD431_AME431BAJATB12Z_TO-92](#) .

Test Item	Method	Description	Result
HTST	JESD22-A103C	150 , 1000 hrs	Pass
THT (85/85)	JESD22-A101C	85 , 85% RH, 1000hrs, without bias	Pass
PCT	JESD22-A102C	121 , 100% RH, 2atm, 168hrs	Pass
TCT	JESD22-A104D	-65 ~ 150 , 500 cycles, DWELL=15min	Pass
Solderability	J-STD-002C	Steam aging: 8h Temp.=245 , Duration=5sec	Pass



Reliability Report for Green mold compound TO-92 package series products

Approved by

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Quality & Reliability Dept.
Director

Prepared by

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Quality & Reliability Dept.
Supervisor



Conclusion:

This is to inform you that new green mold compound SP-260 will be applied to all the AME's products of TO-92 package

The TO-92 green compound series product has successfully met AME's reliability standard that is

required on all AME, Inc products.

Furthermore, QRA Dept. of AME, Inc monitors the reliability continuously to make sure that all

TO-92 series product will still meet AME's reliability standard in the future.

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、 Package Reliability Test Result



Package Reliability Test Result:

Test Item	Test Condition	Sample Size / Failures	Result
HTS	Temp.=150 Duration=1000 hours Unbiased, Read at 1000 hours	77 pcs / 0 pcs	Pass
THT	Temp.=85 , R.H.=85% Duration=1000 hours Unbiased, Read at 1000 hours	77 pcs / 0 pcs	Pass
PCT	Temp.=121 , R.H.=100% 15PSIG, Unbiased Duration=168 hours Read at 168 hours	77 pcs / 0 pcs	Pass
TCT	-65 ~ 150 500 cycles Unbiased, Read at 500 cycles	77 pcs / 0 pcs	Pass
Solderability	Steam aging: 8h Temp.=245 Duration=5sec	5 pcs / 0 pcs	Pass