

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:

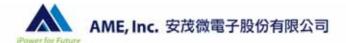
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Email: <u>JerryS@ame.com.tw</u> Phone: +886.2.2627.8687 # 2110

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.



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

REL-TO-92 -GP-B

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

Approved by

Arthur Rong

Quality & Reliability Dept.

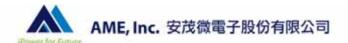
Director

Prepared by

Eric Chen

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