



COMPONENT NEWS

PREPRODUCTION ENGINEERING

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COMPILED BY PRODUCT RELIABILITY INFORMATION NO. 88 DATE 9-10-68

CONTINENTAL DEVICE CORPORATION 151-0190-01

CDC has supplied transistors to our specification 151-0190-00-AA, with exceptions to the marking and package. The *CDC* package is the TO-106 ceramic-plastic (TO-18 pincircle and basing like 151-0223, 0224, 0225.) After a year and a half in the field, there have been no reported field failures of transistors in the *CDC* package.

The JEDEC registration for 2N3904 calls out the TO-92 one peice molded package. *CDC* units are marked with our part number 151-0190.

The only electrical deviation is relaxation of the storage time spec from 200 nanoseconds to 300 nanoseconds.

As most of you know, we have been experiencing many unexplained field failures with the *MOTOROLA* 2N3904. Until now there has not been a direct replacement available at any price.

With the anticipation of improving reliability, we are changing to *CDC* as prime source for this device. *MOTOROLA* will be an emergency source. If you have designed, or are designing circuits using 151-0190's and have any doubt about the *CDC* units doing the job, let's talk about it.

-Ken Tomlin

151-0210-00, 151-0241-00 SPECIFICATION CHANGE

RCA is discontinuing the 40422 family from which our 151-0210-00 is selected. They are also discontinuing the 2N4298 family from which our 151-0241-00 is selected. It is expected that we will use instead devices selected from their 2N3585 family which will meet all the requirements of our specifications with the exception of collector-base capacitance. Both specifications would be altered to read: Cob 120pF max at VCB=10V.

-Tom Jennings



151-0239-00 POSSIBLE CHANGE

FAIRCHILD is discontinuing the 2N4111 which is our 151-0239-00. Negotiations are in progress to obtain a replacement. Relaxation of the specification may help us to obtain a better deal. Anyone considering this device for new design who would be inconvenienced by a relaxation in the spec limits on breakdown voltage, Beta or device capacitance, should contact me at Ext. 7711.

-Tom Jennings

151-0210-00, 151-0241-00 SPECIFICATION CHANGE

RCA is discontinuing the 40422 family from which our 151-0210-00 is selected. They are also discontinuing the 2N4298 family from which our 151-0241-00 is selected. It is expected that we will use instead devices selected from their 2N5282 family which will meet all the requirements of our specifications with the exception of collector-base capacitance. Both specifications would be altered to read: C_{cb} 130pF max at V_{CB}=10V.

-Tom Jennings