



DMSMS NOTICE

DIMINISHING MANUFACTURING SOURCES AND MATERIAL SHORTAGES

1. TITLE OBSOLESCENCE AND FOUNDRY MIGRATION NOTICE FOR MICROCIRCUIT, DIGITAL, RADIATION HARDENED, ADVANCED CMOS, OCTAL BUFFER/LINE DRIVER WITH THREE-STATE OUTPUTS, TTL COMPATIBLE INPUTS, MONOLITHIC SILICON		2. DOCUMENT NUMBER SPO-2020-D-0012	
		3. DATE (Year, Month, Date) 2020, SEPTEMBER, 14	
4. MANUFACTURER NAME AND ADDRESS CAES 4350 CENTENNIAL BOULEVARD COLORADO SPRINGS, COLORADO 80907-3486		5. MANUFACTURER POINT OF CONTACT (NAME) Rebekah Sharp	
		6. MANUFACTURER POINT OF CONTACT TELEPHONE 7195948058	
		7. MANUFACTURER POINT OF CONTACT EMAIL Rebekah.Sharp@Cobhamaes.com	
8. CAGE CODE 65342	9. MANUFACTURER FINAL ORDER DATE SEE COMMENTS BELOW	10. PRODUCT IDENTIFICATION CODE L244	11. BASE PART UT54ACTS244
12. BLANK		13. SMD NUMBER 5962-96571	14. DEVICE TYPE DESIGNATOR 01
		15. RHA LEVELS R, F, G, AND H	16. QML LEVEL Q and V
		17. NON QML LEVEL NA	18. GIDEP NUMBER GB4 -D-20-0010

19. COMMENTS
CAES IS ISSUING THIS DIMINISHING MANUFACTURING SOURCES AND MATERIAL SHORTAGES NOTICE TO ANNOUNCE OBSOLESCENCE AND FOUNDRY MIGRATION OF DEVICE TYPE 01 FROM 1.2µm RADIATION-HARDENED CMOS TO ON-SEMICONDUCTOR'S 0.6µm C5U COMMERCIAL RADIATION-HARDENED CMOS PROCESS. THE MIGRATED DEVICE WILL CONTINUE TO SHIP AS DEVICE TYPE 01, FORM, FIT, AND FUNCTIONAL TO THE LEGACY DEVICE, WITH ADJUSTMENTS DESCRIBED BELOW.

AS PART OF THIS MIGRATION, THE RADIATION HARDNESS ASSURANCE LEVEL H AND CASE OUTLINE R WILL NO LONGER BE AVAILABLE FROM AN APPROVED SOURCE OF SUPPLY. COBHAM IS NO LONGER ACCEPTING PURCHASE ORDERS FOR DEVICE TYPE 01 WITH THE RHA LEVEL H OR CASE OUTLINE R. ADDITIONALLY, DIE SALES AGAINST DIE DETAIL A ARE NO LONGER AVAILABLE. FUTURE DIE SALES MAY BE ISSUED AGAINST DIE DETAIL B PER THE UPDATED SMD. NOTE: THE NEW DIE SUPPLIED AGAINST DIE DETAIL B REQUIRES A SUBSTRATE BIAS TO VSS. FINALLY, THE POST IRRADIATION QIDD LIMIT WILL BE INCREASED AS OUTLINED BELOW.

TABLE IA. <u>Electrical performance characteristics.</u>								
Test	Symbol	Test conditions <u>2/</u> -55°C ≤ T _c ≤ +125°C unless otherwise specified	Device type	V _{DD}	Group A subgroups	Limits		Unit
						Min	Max	
Quiescent supply current	I _{DDQ}	V _{IN} = V _{DD} or V _{SS}	All	5.5 V	1, 2, 3		10.0	µA
		Max Rated RHA <u>2/</u>	01	5.5 V	1		50.0	

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THE MIGRATED DEVICE OFFERING WILL BE AVAILABLE WITH THE FOLLOWING OPTIONS:

SMD #: 5962-96571 DEVICE TYPE: 01

AVAILABLE RHA DESIGNATORS: R(100KRADS (SI)), F(300KRADS (SI)), G(500KRADS (SI))

DEVICE CLASS: Q, V

CASE OUTLINE DESIGNATOR: X(20LEAD FLATPACK) OR DIE CODE: 9

LEAD FINISH: A, C, X OR DIE DETAIL: B

OBSOLETE SMD PINS	OBSOLETE VENDOR SIMILAR PIN	REPLACEMENT SMD PINS	REPLACEMENT VENDER SIMILAR PIN
5962H9657101VRA	UT54ACTS244PVAH	NA	NA
5962H9657101VXA	UT54ACTS244UVAH	5962G9657101VXA	UT54ACTS244UVAG
5962H9657101VRC	UT54ACTS244PVCH	NA	NA
5962H9657101VXC	UT54ACTS244UVCH	5962G9657101VXC	UT54ACTS244UVCG
5962H9657101QRA	UT54ACTS244PQAH	NA	NA
5962H9657101QXA	UT54ACTS244UQAH	5962G9657101QXA	UT54ACTS244UQAG
5962H9657101QRC	UT54ACTS244PQCH	NA	NA
5962H9657101QXC	UT54ACTS244UQCH	5962G9657101QXC	UT54ACTS244UQCG
5962H9657101V9A	UT54ACTS244-V-DIEH	5962G9657101V9B	UT54ACTS244-V-DIEG
5962H9657101Q9A	UT54ACTS244-Q-DIEH	5962G9657101Q9B	UT54ACTS244-G-DIEG