

PRODUCT CHANGE NOTICE

1. TITLE MICROCIRCUIT, DIGITAL-LINEAR, OCTAL 400 MBPS BUS LVDS CROSSPOINT SWITCH, MONOLITHIC SILICON -- THETA-JC AND POWER DISSIPATION UPDATE		2. DOCUMENT NUMBER SPO-2014-PCN-0002	
		3. DATE (Year, Month, Date) 2014, February, 28	
4. MANUFACTURER NAME AND ADDRESS CAES 4350 CENTENNIAL BOULEVARD COLORADO SPRINGS, COLORADO 80907-3486		5. MANUFACTURER POINT OF CONTACT NAME Jennifer Larsen	
		6. MANUFACTURER POINT OF CONTACT TELEPHONE 719-594-8000	
		7. MANUFACTURER POINT OF CONTACT EMAIL Jennifer.larsen@cobhamaes.com	
8. CAGE CODE 65342	9. EFFECTIVE DATE 2014, February, 28	10. PRODUCT IDENTIFICATION CODE WD17	11. BASE PART UT54LVDM228
12. BLANK		13. SMD NUMBER 5962-01537	14. DEVICE TYPE DESIGNATOR 01
		15. RHA LEVELS NON, R, F, G, and H	16. QML LEVEL Q and V
		17. NON QML LEVEL PROTO and HIREL	18. BLANK

19. PRODUCT CHANGE

This notification serves to inform our customers of the update to the power dissipation (P_D) and thermal resistance junction-to-case (Θ_{JC}). CAES has performed analysis that more accurately represent the P_D and Θ_{JC} parameters.

Per MIL-STD-883, Method 1012.1, Section 3.4.1, $P_D = (T_{J(max)} - T_{C(max)}) / \Theta_{JC}$.

The SMD will update to reflect the following changes:

Parameter	OLD	NEW
Θ_{JC}	22°C/W	15°C/W
P_D	800mW	1.667W

The effective result of this change is the device has better thermal impedance than previously reported. The lower Θ_{JC} permits the user application to reliably dissipate more power.

20. DISPOSITIONARY RECOMMENDATION:	CHECK & <input checked="" type="checkbox"/> USE AS IS	CONTACT <input type="checkbox"/> MANUFACTURER	REMOVE & <input type="checkbox"/> REPLACE	CORRECT & <input type="checkbox"/> USE AS SPECIFIED
21. ADEPT REPRESENTATIVE Timothy L. Meade	22. SIGNATURE 			23. DATE 28 February, 2014