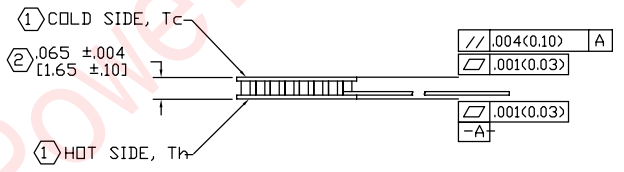
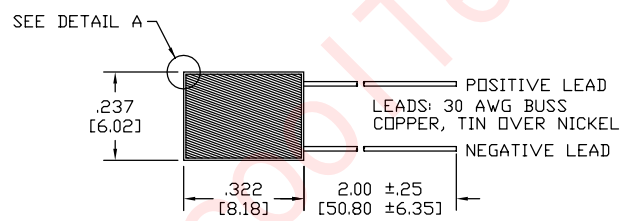
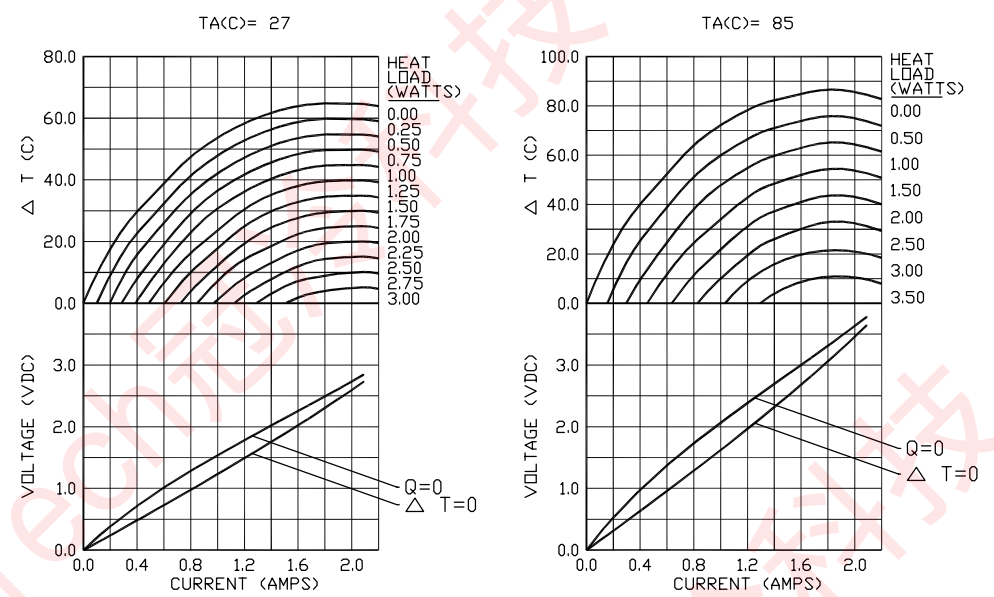


DETAIL A
 DETAIL APPLICABLE TO MODULES WITH TOP OR BASE EXTERIOR METALLIZATION ONLY.

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	1	ORIGINATION (12957)	04-09-97	R.WALKER
ALL	2	ADD -006 (15041)	03-05-98	J.PEARSON
ALL	A	R.T.P. W/CHG'S. (19044)	01-13-00	J.PEARSON
ALL	B	NOTE 8 MOD. NOTE 1 (22783)	7/9/01	M.GIRAUD
ALL	C	UPDATE PER REDLINES (22909)	07-25-01	M.GIRAUD

TYPICAL PERFORMANCE CURVES

NITROGEN (1 ATM)



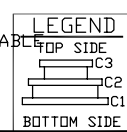
FINISHED MODULE
 SCALE: 4:1

TYPICAL PERFORMANCE NITROGEN (1 ATM)	
Th, °C	27 85
Vmax, VDC	zoom --
ΔTmax, °C	0 1
Imax, AMPS	0.0 0.0
Qmax, WATTS	0.0 0.0
AC Res, OHMS	e insert

9. MAXIMUM OF 20 COOLERS PACKAGED PER TRAY.
 8. MATERIAL: ALUMINUM OXIDE.
 7. EDGES MAY BE SCRIBED AND SNAPPED AND MAY DISPLAY IRREGULARITIES WITHIN THE STATED TOLERANCES.
 6. DIMENSIONS WITHIN [] ARE IN MILLIMETERS.
 5. MAXIMUM PROCESS TEMPERATURE S 220°C.
 4. MAXIMUM OPERATING TEMPERATURE IS 85°C.
 3. INTERNAL SOLDER MELTING POINT TEMPERATURE: 232°C
 2. DIMENSION INCLUDES METALLIZATION, BUT NOT EXTERNAL SOLDER, WHEN APPLICABLE.
 1. DEVICE EXTERIOR SURFACE: Au (4-10 MICRO INCHES) OVER NI PLATED Cu METALLIZATION.
- SEE TABLE FOR TINNING OPTIONS, IF ANY.

NOTES:

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NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED	DATE
	SP5083	HOLE TOLERANCE PER AND10387 ALL DIM. ARE IN INCHES	04-04-97
		2 PLACE DECIMALS ±.02	04-04-97
		3 & 4 PLACE DECIMALS ±.010	04-09-97
		ANGLES ± 2° FINISH .125	11-15-99
		MATERIAL: REF NOTES	11-17-99
		DRAWING INTERPRETATION PER: ANSI Y14.5M	11-15-99

marlow industries, inc. 10451 Vista Park Road Dallas, Texas	
INTERFACE CONTROL DRAWING 1 STAGE - SP5083	
SIZE: C CAGE NO: 55686 DWG NO: 100-0203	REV: C
SCALE NOTED CAD GENERATED DWG SHEET 1 OF 1	

MODEL NUMBER	PART NUMBER	NOMENCLATURE OR DESCRIPTION	ITEM
SP5083	SP5083-07AC	TEHP, MELZD EXT, PRETIN W/ 118°C COLD SIDE, 183°C HOT SIDE	---
SP5083	SP5083-06AC	TEHP, MELZD EXT, PRETIN W/ 146°C COLD SIDE, 183°C HOT SIDE	---
SP5083	SP5083-05AC	TEHP, MELZD EXTERIOR, PRETIN W/ 146°C COLD AND HOT SIDE	---
SP5083	SP5083-04AC	TEHP, MELZD EXTERIOR, PRETIN W/ 183°C COLD AND HOT SIDE	---
SP5083	SP5083-03AC	TEHP, BARE EXT	---
SP5083	SP5083-01AC	TEHP, GOLD PLATED OVER MTLZD EXT	---

MODEL / PART NUMBER CROSS REFERENCE