

CS0535-B2012AN8

PRODUCT SPECIFICATION

PRODUCT : SHARP COOLER

MODEL NO : BP0535SA7-1

PART NO : CS0535-B2012AN8

This specification here in attached data sheets in 5 pages covers the overall characteristics of the BP0535SA7-1 sharp cooler operated under +5V DC with 2.44°C/W thermal resistance.

ENG.

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ACT-RX TECHNOLOGY CORPORATION

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REV : 11

1.SCOPE

This document specifies the overall characteristics of the BP0535SA7-1 sharp cooler.

2.ELECTRICAL

	Item	Specification	Test Condition
1	Operating Voltage	5 V \pm 15%	DC power supply
2	Rated Current (Max.)	0.13 Amp	DC power supply
3	Stall Current	0.16 Amp	Fan stalled with power on
4	Rated Power (Max.)	0.65 W	Under at rated voltage and rated current
5	Insulation Resistance	10 M Ω (Min.)	Input 500V(DC) between Lead wire(+) and housing
6	Speed	6500 RPM (typical) \pm 15%	Measured at 10 minutes after starting under 25°C 65%RH ambient
7	Acoustical Noise	27 dB(A) Avg. 30 dB(A) Max.	Measured with an acoustic microphone standing 1m away from the running fan in a test chamber with background noise level below 15dB(A)
8	Static Pressure	3.92 mm-H ₂ O (0.154 inch-H ₂ O)	At zero airflow ; rated voltage
9	Air Flow	0.028 CMM (0.98CFM)	At zero static pressure ; rated voltage

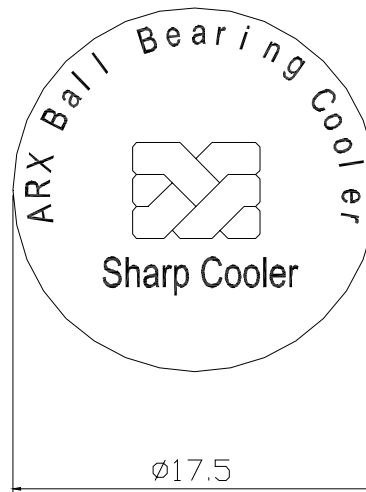
3.MATERIAL

Al Base	Al 1050
Blade	PBT UL 94V-0
Heat Sink	ADC-12
Lead Wire	UL 1571 AWG28 or Equivalent + : red - : black

4.MECHANICAL

Dimensions	L * W * H = 35*35*7.6(mm)
Weight	11g
Operating temperature range	0 °C ~ 75 °C
Bearing system	Ball bearing
Mean Time Between Failure (MTBF)	65000 hrs Ball bearing At ambient temp. : 25 °C , 65%±20% RH

5. PRODUCT LABEL



6.ORDERING AND OPERATING REMARKS

- a. For those not specified but vital to your requirement, ACT-RX is in full position to supply qualified substitutes .
- b. Improper use may lead to malfunction. To ensure operation, avoid dipping into watery and oily liquid, or exposure to heat, etc.
- c. All specifications subject to change without prior notice.
- d. Customized products on request.
- e. Do not touch or push the fan and/or holders to avoid damages in the cooler.
- f. This model is designed for upside up operation only.
- g. ACT-RX does not guarantee the product if applications exceed specified limitations.

7.RELIABILITY

	Item	Specification	Test Condition
1	Locked rotor test	Flameproof and damage free	Rotor locked for 72 hrs with power on
2	Reverse volt protection	Yes	Reverse voltage with power on
3	Balance test	No protruding beyond the circle within 10 seconds	The fan runs in a circle, scaled by fan radius plus 10mm, on a perfectly smooth plate for 10 seconds
4	Drop test	All specified characteristics remain unchanged	Free drop in minimum package to an oak board of 10mm thickness at 30cm below. Individual X,Y,Z face tested
5	Shock test	All specified characteristics remain unchanged	A peak acceleration of 50G at a duration pulse of 11 μ sec. (half sinewave) is applied
6	Vibration test	All specified characteristics remain unchanged	Ambient temp.:30°C \pm 5°C with 5V power supply Amplitude : 0.4-2.5 mm Acceleration : 14.7 m ² /s Frequency : 10HZ-60HZ Sweeping period : 1 min. 10HZ-60HZ : 30 sec 60HZ-10HZ : 30 sec Total : 10 cycles
7	High/low temperature cycling	All specified characteristics remain unchanged	20 minutes slew rate +75 °C(1hrs) , -20 °C(1 hr) Total : 36 cycles
8	Low temp. storage	All specified characteristics remain unchanged	Tested under -20°C for 500 hrs without power supply
9	High temp. storage	All specified characteristics remain unchanged	+80 °C for 500 hrs without power supply
10	Dielectric strength	Max. 1 mA of leakage current	Input 500V(AC) for 1 sec between lead(+) and housing

8.PERFORMANCE CHARTS ASSEMBLY DIAGRAM

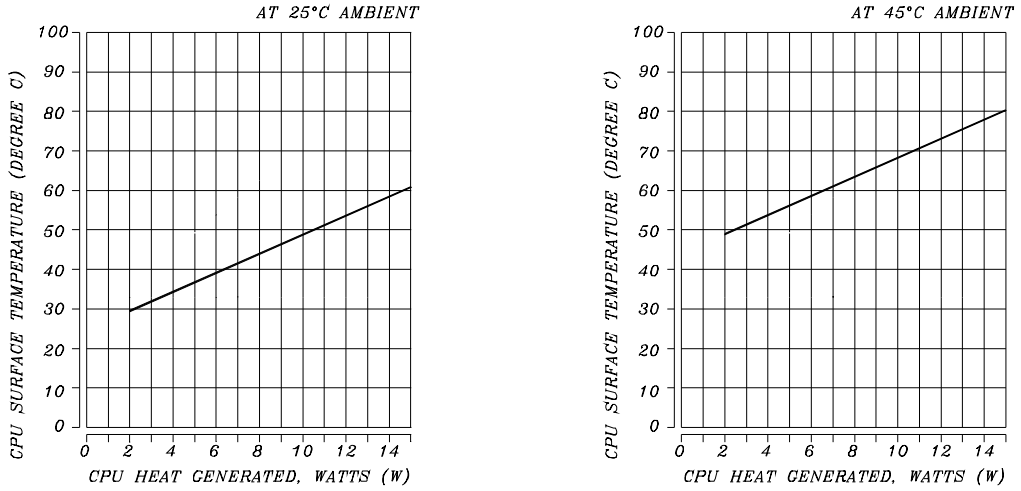


FIG1. Cooling performance

FIG2. Fan characteristics

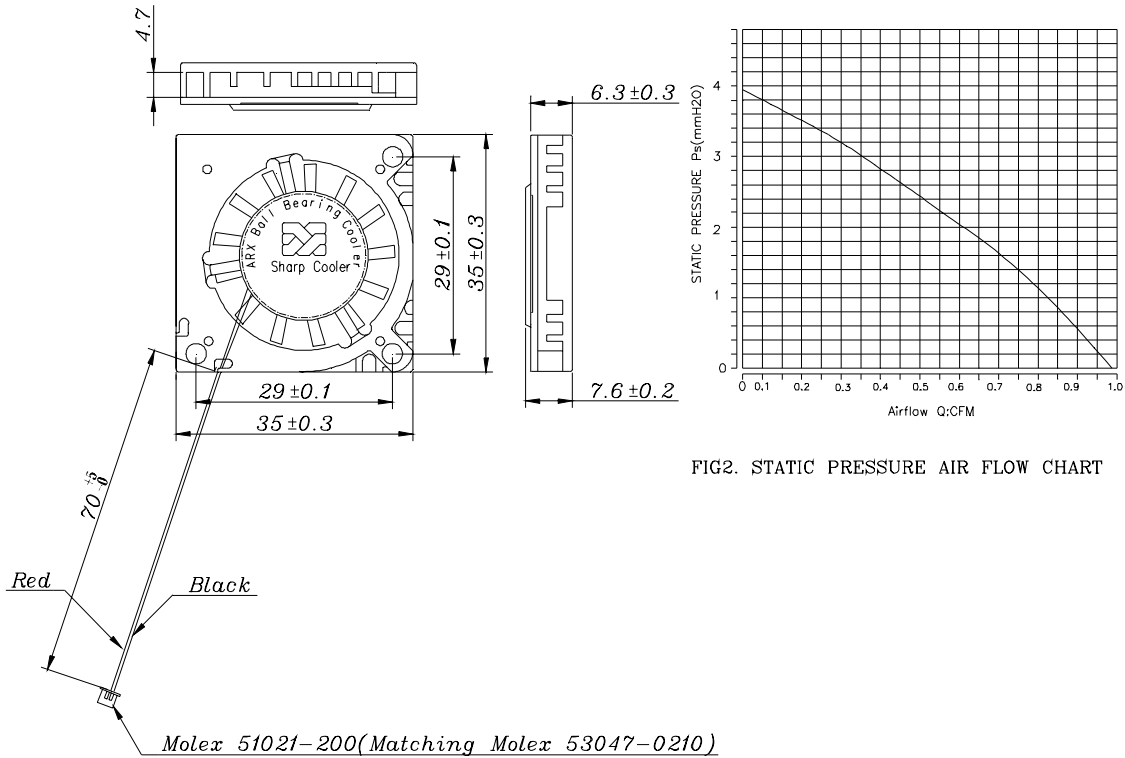
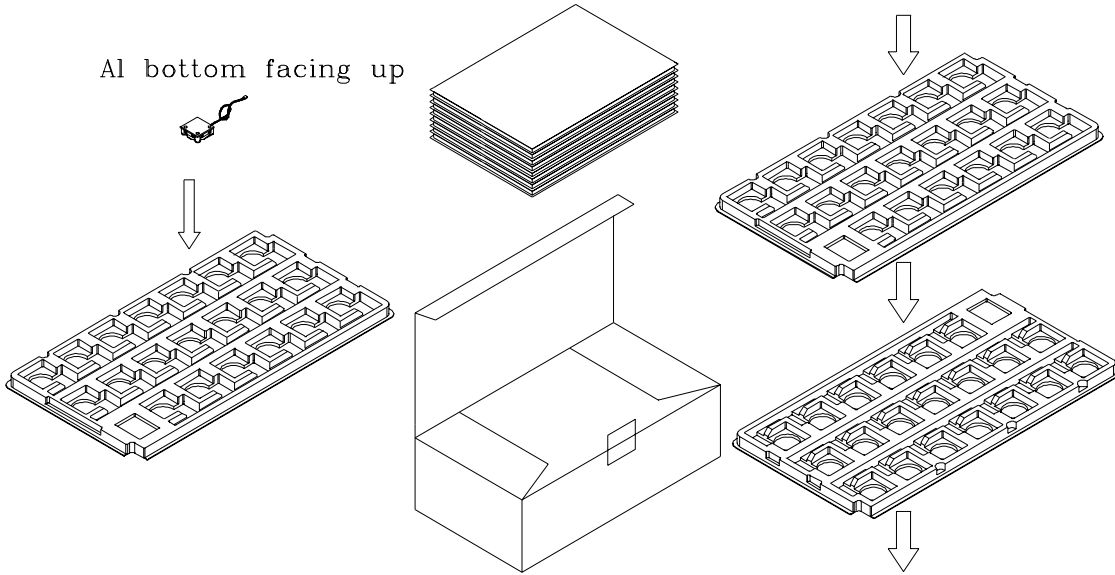


FIG2. STATIC PRESSURE AIR FLOW CHART

9.PACKAGE

(1) Tray (2)Box
20pcs/Tray 6 Tray/Box= 120pcs/Box

AI bottom facing up



Turn 180 degrees while stacking up the even number trays.

(3)Carton
4Box/Carton=480pcs/Carton

