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Complete data sheet available via web, Harris' home page: <http://www.semi.harris.com/> or via Harris AnswerFAX, see Section 10

General Purpose NPN Transistor Arrays

Features

- **Two Matched Transistors**
 - V_{BE} Match $\pm 5mV$
 - I_{Q} Match $2\mu A$ (Max)
- **Low Noise Figure** 3.2dB (Typ) at 1kHz
- **5 General Purpose Monolithic Transistors**
- **Operation From DC to 120MHz**
- **Wide Operating Current Range**
- **Full Military Temperature Range**

Applications

- **Three Isolated Transistors and One Differentially Connected Transistor Pair for Low Power Applications at Frequencies from DC Through the VHF Range**
- **Custom Designed Differential Amplifiers**
- **Temperature Compensated Amplifiers**
- **See Application Note, AN5296 "Application of the CA3018 Integrated-Circuit Transistor Array" for Suggested Applications**

Description

The CA3045 and CA3046 each consist of five general purpose silicon NPN transistors on a common monolithic substrate. Two of the transistors are internally connected to form a differentially connected pair.

The transistors of the CA3045 and CA3046 are well suited to a wide variety of applications in low power systems in the DC through VHF range. They may be used as discrete transistors in conventional circuits. However, in addition, they provide the very significant inherent integrated circuit advantages of close electrical and thermal matching.

Ordering Information

| PART NUMBER (BRAND) | TEMP. RANGE (°C) | PACKAGE | PKG. NO. |
|---------------------|------------------|--------------------------|----------|
| CA3045 | -55 to 125 | 14 Ld SBDIP | D14.3 |
| CA3045F | -55 to 125 | 14 Ld CERDIP | F14.3 |
| CA3046 | -55 to 125 | 14 Ld PDIP | E14.3 |
| CA3046M (3046) | -55 to 125 | 14 Ld SOIC | M14.15 |
| CA3046M96 (3046) | -55 to 125 | 14 Ld SOIC Tape and Reel | M14.15 |

Pinout

CA3045, (CERDIP, SBDIP)
CA3046 (PDIP, SOIC)
TOP VIEW

