**ABSOLUTE MAXIMUM RATINGS**[1]
($T_A$ = 25°C, unless otherwise noted.)

$V_{DD}$ to GND . . . . . –0.3 V to +8 V
$V_{REF}$ to GND . . . . . ±18 V
$V_{RFB}$ to GND . . . . . ±18 V
Digital Input Voltage Range . . . . . –0.3 V to $V_{DD}$ + 0.3 V
$V_{IOUT}$ to GND . . . . . –0.3 V to $V_{DD}$ + 0.3 V
Operating Temperature Range
FP Versions . . . . . –40°C to +85°C
GP Version . . . . . 0°C to 70°C
Junction Temperature . . . . . 150°C
Storage Temperature . . . . . –65°C to +150°C
Lead Temperature (Soldering, 60 sec) . . . . . 300°C

| Package Type | $\theta_{JA}$[2] | $\theta_{JC}$ | Unit |
|---|---|---|---|
| 8-Lead PDIP | 96 | 37 | °C/W |

NOTES
[1]Stresses above those listed under Absolute Maximum Ratings may cause permanent damage to the device. This is a stress rating only; functional operation of the device at these or any other conditions above those listed in the operational sections of this specification is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability. Only one absolute maximum rating may be applied at any one time.
[2]$\theta_{JA}$ is specified for worst-case mounting conditions, i. e., $\theta_{JA}$ is specified for device in socket for PDIP package.

**CAUTION**
1. Do not apply voltages higher than $V_{DD}$ or less than GND potential on any terminal except $V_{REF}$ (Pin 1) and $R_{FB}$ (Pin 2).
2. The digital control inputs are Zener-protected; however, permanent damage may occur on unprotected units from high energy electrostatic fields. Keep units in conductive foam at all times until ready to use.
3. Use proper antistatic handling procedures.
4. Absolute Maximum Ratings apply to both packaged devices and DICE. Stresses above those listed under Absolute Maximum Ratings may cause permanent damage to the device.

**ORDERING GUIDE***

| Model | Relative Accuracy | Temperature Range | Package Option |
|---|---|---|---|
| DAC8043FP | ±1 LSB | –40°C to +85°C | 8-Lead PDIP |
| DAC8043GP | ±1/2 LSB | 0°C to +70°C | 8-Lead PDIP |

*All commercial and industrial temperature range parts are available with burn-in.

**CAUTION**
ESD (electrostatic discharge) sensitive device. Electrostatic charges as high as 4000 V readily accumulate on the human body and test equipment and can discharge without detection. Although the DAC8043 features proprietary ESD protection circuitry, permanent damage may occur on devices subjected to high energy electrostatic discharges. Therefore, proper ESD precautions are recommended to avoid performance degradation or loss of functionality.