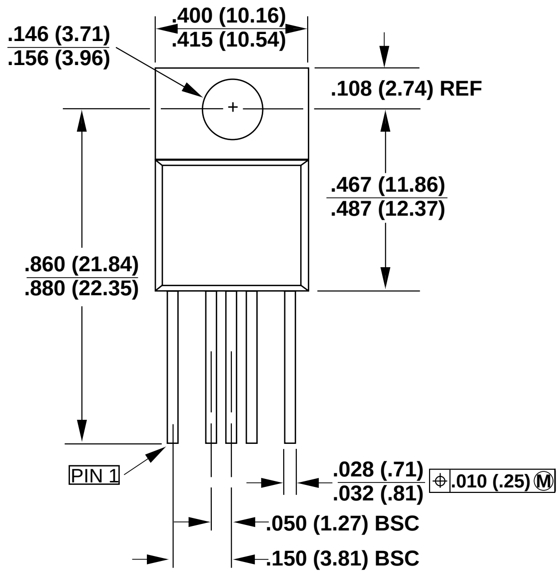
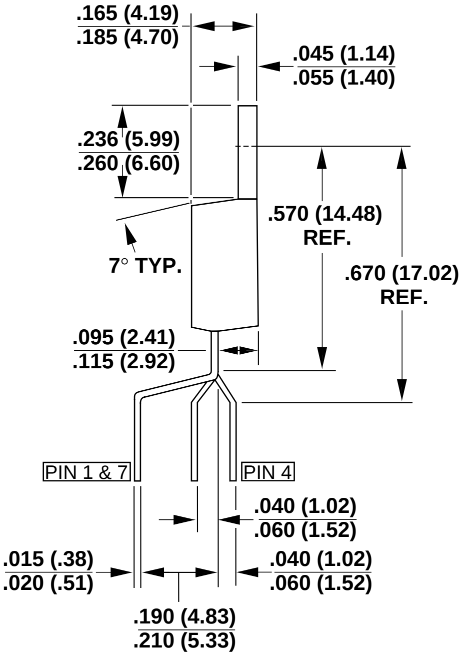
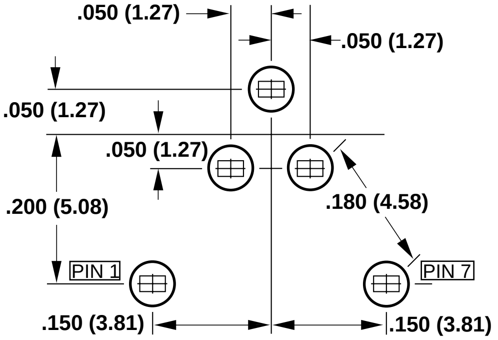
Package Information

Package Design Specifications

TO-220-7B







Y07B

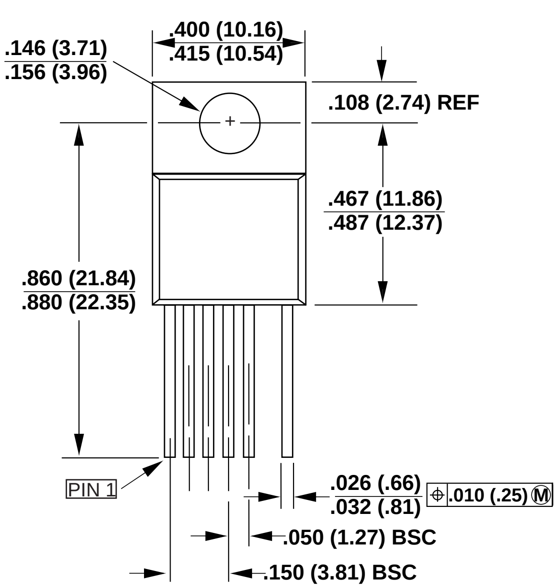
MOUNTING HOLE PATTERN

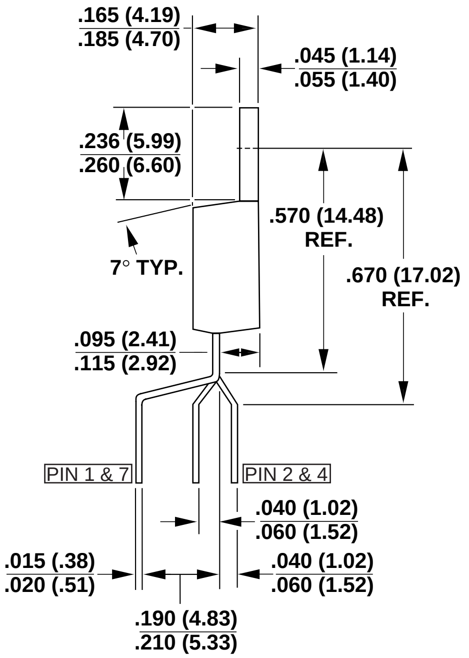
Notes:

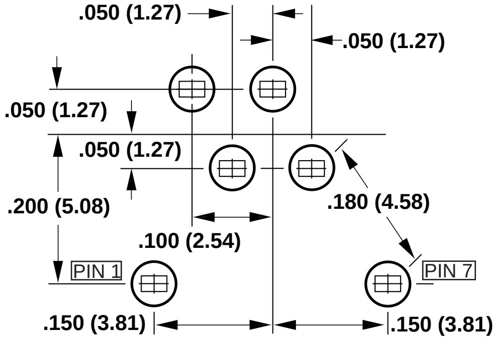
1. Controlling dimensions are inches. Millimeter dimensions are shown in parentheses.
2. Pin locations start with Pin 1, and continue from left to right when viewed from the front. Pins 2 and 6 are omitted.
3. Dimensions do not include mold flash or other protrusions. Mold flash or protrusions shall not exceed .006 (.15mm) on any side.
4. Minimum metal to metal spacing at the package body for omitted pin locations is .068 inch (1.73 mm).
5. Position of the formed leads to be measured at the mounting plane, .670 inch (17.02 mm) below the hole center.
6. All terminals are solder plated.

PI-2560-033001

TO-220-7C







Y07C

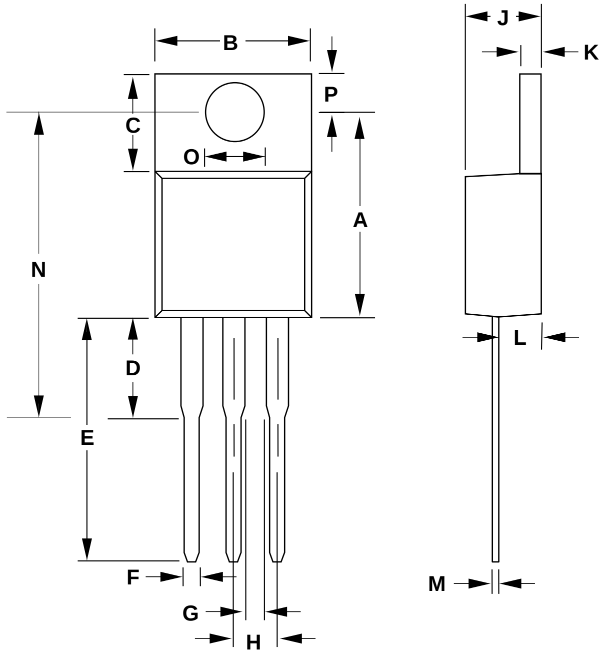
MOUNTING HOLE PATTERN

Notes:
1. Controlling dimensions are inches. Millimeter dimensions are shown in parentheses.
2. Pin numbers start with Pin 1, and continue from left to right when viewed from the front.
3. Dimensions do not include mold flash or other protrusions. Mold flash or protrusions shall not exceed .006 (.15mm) on any side.
4. Minimum metal to metal spacing at the package body for omitted pin locations is .068 inch (1.73 mm).
5. Position of terminals to be measured at a location .25 (6.35) below the package body.
6. All terminals are solder plated.

PI-2644-040501

TO-220/3

DIM	inches	mm
A	.460-.480	11.68-12.19
B	.400-.415	10.16-10.54
C	.236-.260	5.99-6.60
D	.240 - REF.	6.10 - REF.
E	.520-.560	13.21-14.22
F	.028-.038	.71-.97
G	.045-.055	1.14-1.40
H	.090-.110	2.29-2.79
J	.165-.185	4.19-4.70
K	.045-.055	1.14-1.40
L	.095-.115	2.41-2.92
M	.015-.020	.38-.51
N	.705-.715	17.91-18.16
O	.146-.156	3.71-3.96
P	.103-.113	2.62-2.87

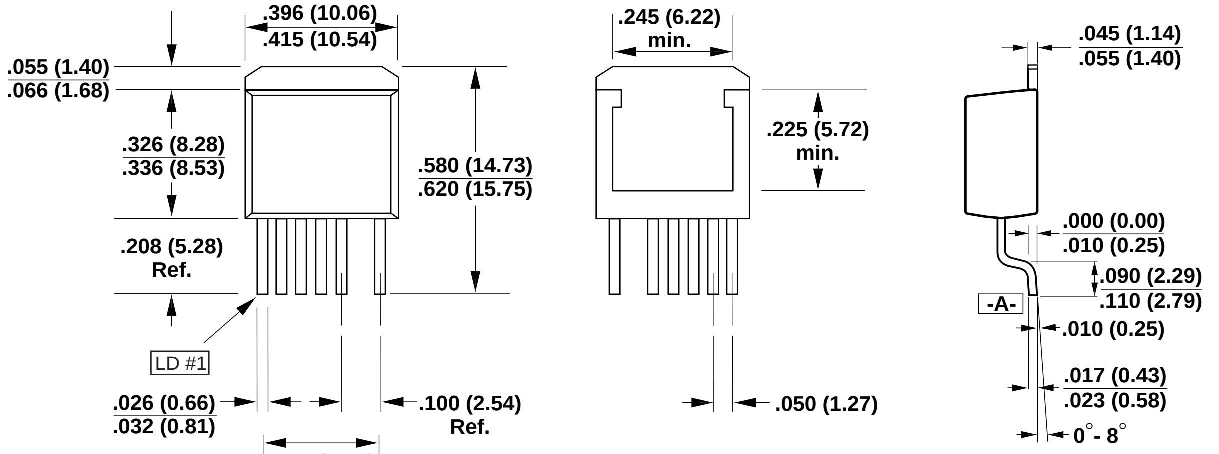


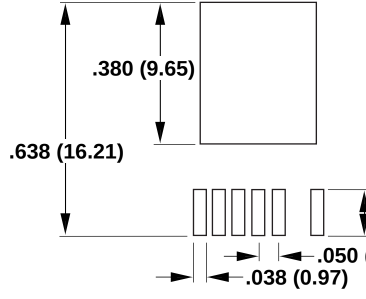
Notes:
1. Package dimensions conform to JEDEC specification TO-220 AB for standard flange mounted, peripheral lead package; .100 inch lead spacing (Plastic) 3 leads (issue J, March 1987)
2. Controlling dimensions are inches.
3. Pin numbers start with Pin 1, and continue from left to right when viewed from the top.
4. Dimensions shown do not include mold flash or other protrusions. Mold flash or protrusions shall not exceed .006 (.15 mm) on any side.
5. Position of terminals to be measured at a position .25 (6.35 mm) from the body.
6. All terminals are solder plated.

Y03A

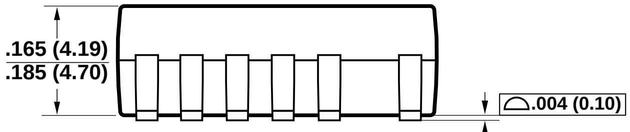
PI-1848-040901

TO-263-7C





Solder Pad Dimensions

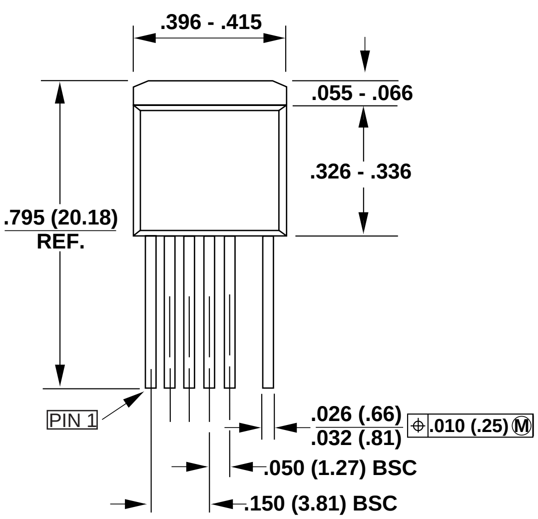


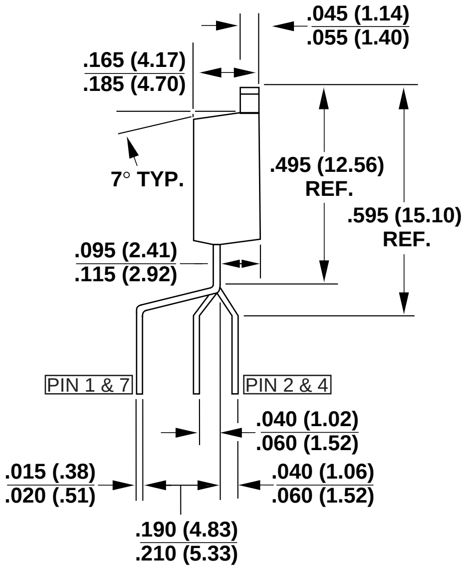
Notes:
1. Package Outline Exclusive of Mold Flash & Metal Burr.
2. Package Outline Inclusive of Plating Thickness.
3. Foot Length Measured at Intercept Point Between Datum A Lead Surface.
4. Controlling Dimensions are in Inches. Millimeter Dimensions are shown in Parentheses.

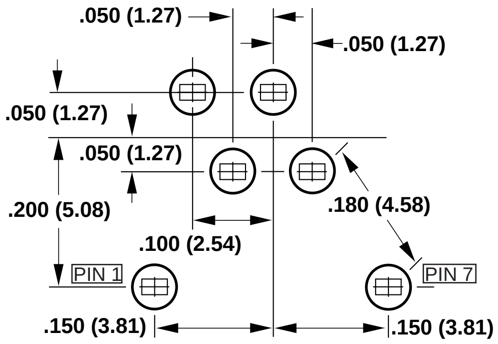
R07C

PI-2664-040501

TO-262-7C







Y07C

MOUNTING HOLE PATTERN

Notes:

1. Controlling dimensions are inches. Millimeter dimensions are shown in parentheses.
2. Pin numbers start with Pin 1, and continue from left to right when viewed from the front.
3. Dimensions do not include mold flash or other protrusions. Mold flash or protrusions shall not exceed .006 (.15mm) on any side.
4. Minimum metal to metal spacing at the package body for omitted pin locations is .068 inch (1.73 mm).
5. Position of terminals to be measured at a location .25 (6.35) below the package body.
6. All terminals are solder plated.

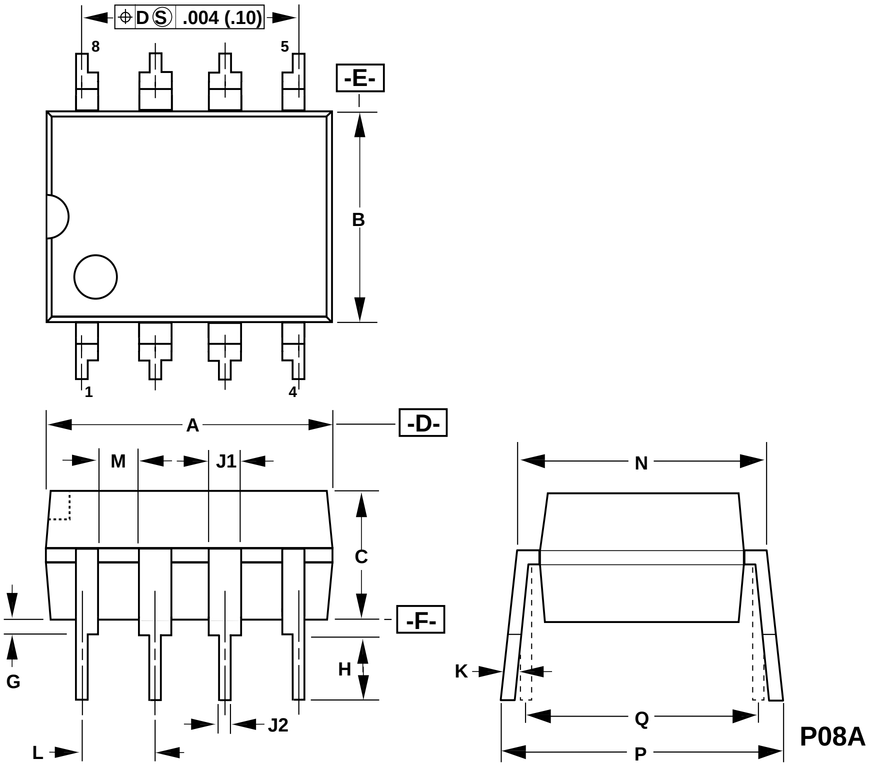
PI-2757-011002

DIP-8

DIM	inches	mm
A	0.370-0.385	9.40-9.78
B	0.245-0.255	6.22-6.48
C	0.125-0.135	3.18-3.43
G	0.015-0.040	0.38-1.02
H	0.120-0.135	3.05-3.43
J1	0.060 (NOM)	1.52 (NOM)
J2	0.014-0.022	0.36-0.56
K	0.010-0.012	0.25-0.30
L	0.090-0.110	2.29-2.79
M	0.030 (MIN)	0.76 (MIN)
N	0.300-0.320	7.62-8.13
P	0.300-0.390	7.62-9.91
Q	0.300 BSC	7.62 BSC

Notes:

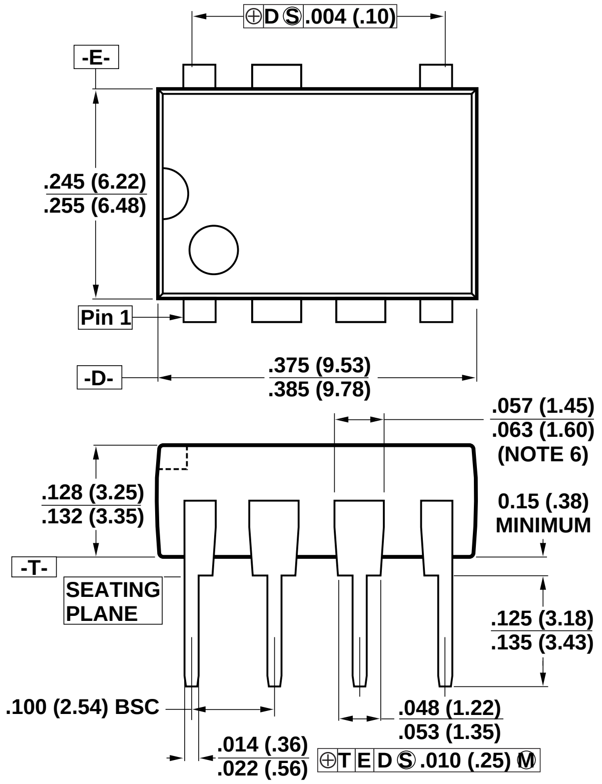
1. Package dimensions conform to JEDEC specification MS-001-AB for standard dual in-line (DIP) package .300 inch row spacing (PLASTIC) 8 leads (issue B, 7/85).
2. Controlling dimensions are inches.
3. Dimensions shown do not include mold flash or other protrusions. Mold flash or protrusions shall not exceed .006 (.15) on any side.
4. D, E and F are reference datums on the molded body.



P08A

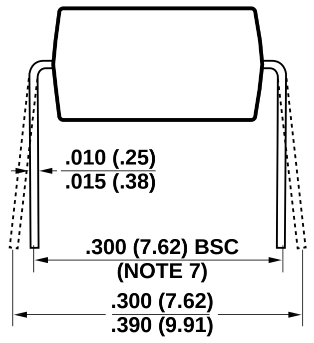
PI-2076-040501

DIP-8B



Notes:

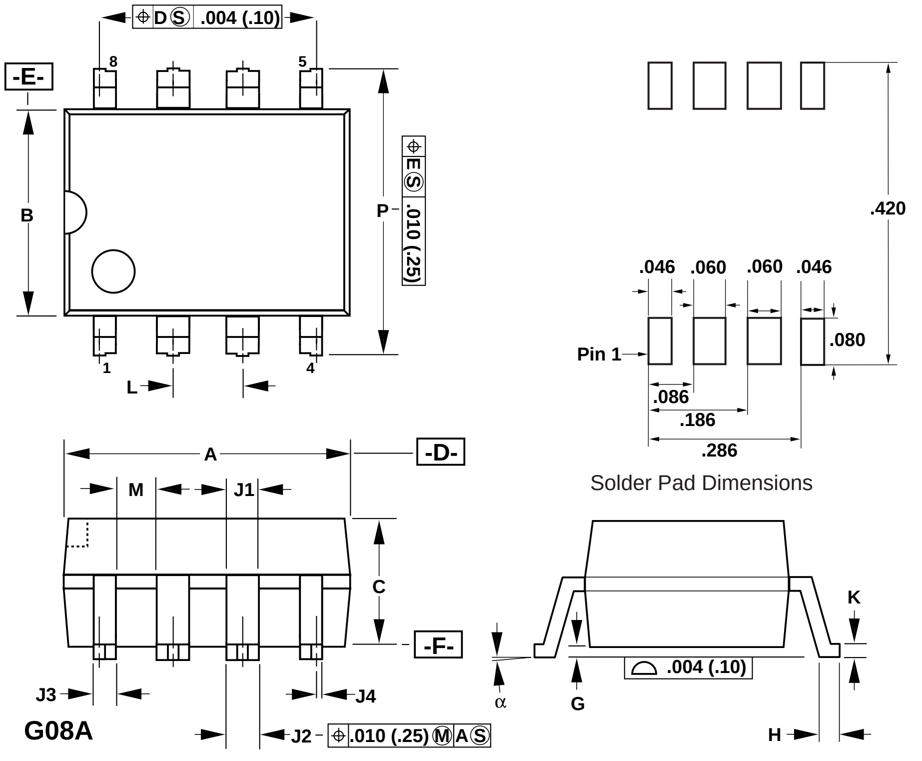
1. Package dimensions conform to JEDEC specification MS-001-AB (Issue B 7/85) for standard dual-in-line (DIP) package with .300 inch row spacing.
2. Controlling dimensions are inches. Millimeter sizes are shown in parentheses.
3. Dimensions shown do not include mold flash or other protrusions. Mold flash or protrusions shall not exceed .006 (.15) on any side.
4. Pin locations start with Pin 1, and continue counter-clockwise to Pin 8 when viewed from the top. The notch and/or dimple are aids in locating Pin 1. Pin 6 is omitted.
5. Minimum metal to metal spacing at the package body for the omitted lead location is .137 inch (3.48 mm).
6. Lead width measured at package body.
7. Lead spacing measured with the leads constrained to be perpendicular to plane T.



P08B

PI-2551-101599

SMD-8



Solder Pad Dimensions

G08A

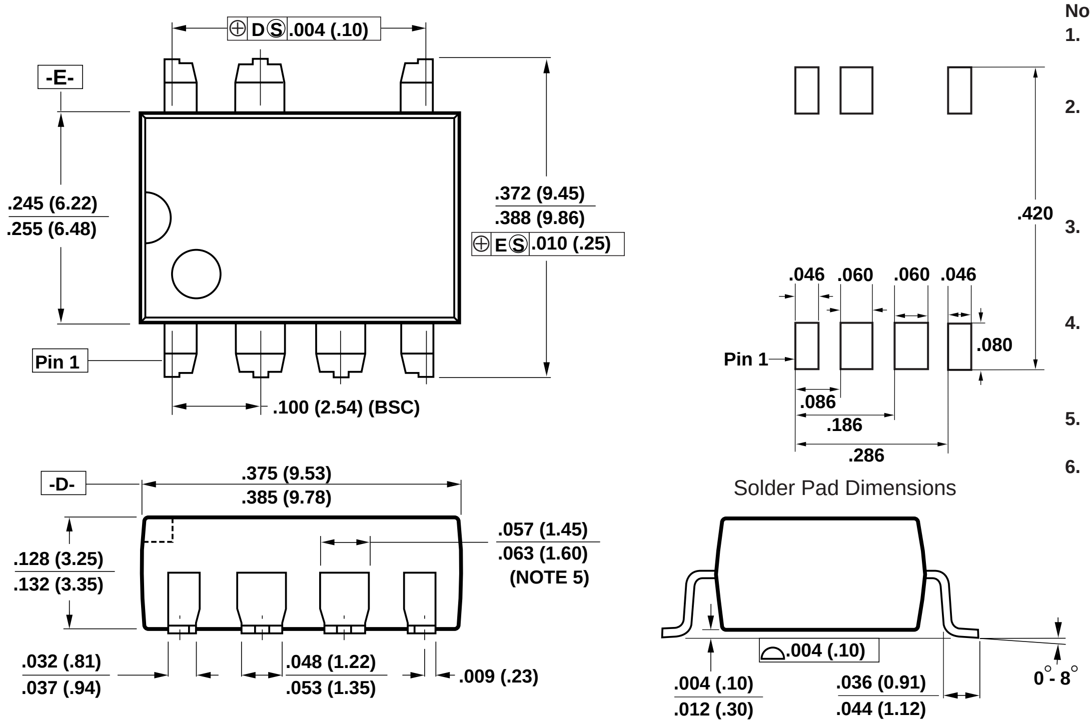
DIM	inches	mm
A	0.370-0.385	9.40-9.78
B	0.245-0.255	6.22-6.48
C	0.125-0.135	3.18-3.43
G	0.004-0.012	0.10-0.30
H	0.036-0.044	0.91-1.12
J1	0.060 (NOM)	1.52 (NOM)
J2	0.048-0.053	1.22-1.35
J3	0.032-0.037	0.81-0.94
J4	0.007-0.011	0.18-0.28
K	0.010-0.012	0.25-0.30
L	0.100 BSC	2.54 BSC
M	0.030 (MIN)	0.76 (MIN)
P	0.372-0.388	9.45-9.86
α	0-8°	0-8°

Notes:

1. Package dimensions conform to JEDEC specification MS-001-AB (issue B, 7/85) except for lead shape and size.
2. Controlling dimensions are inches.
3. Dimensions shown do not include mold flash or other protrusions. Mold flash or protrusions shall not exceed .006 (.15) on any side.
4. D, E and F are reference datums on the molded body.

PI-2077-090601

SMD-8B



Solder Pad Dimensions

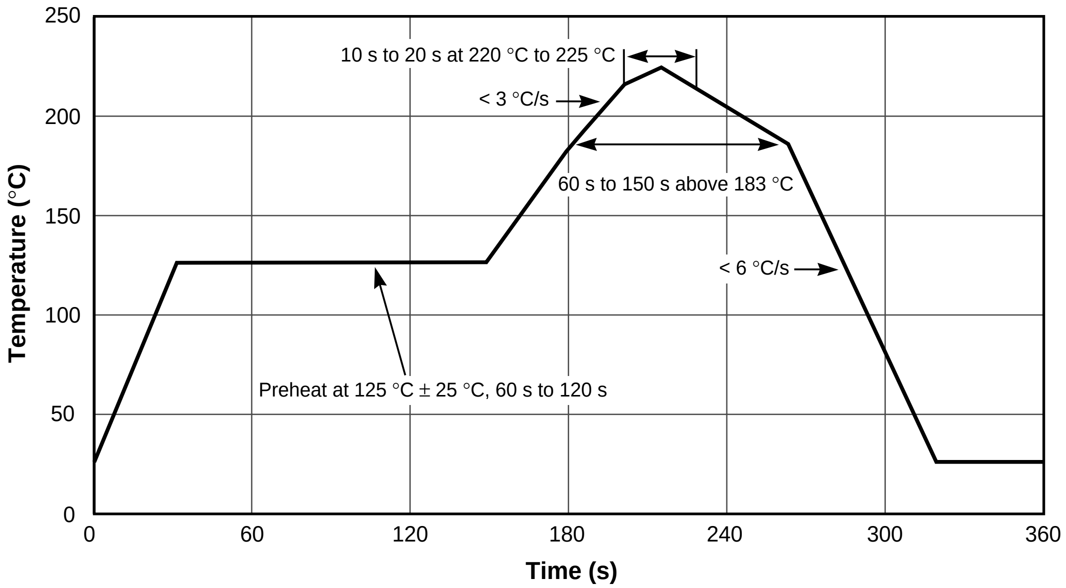
Notes:

1. Controlling dimensions are inches. Millimeter sizes are shown in parentheses.
2. Dimensions shown do not include mold flash or other protrusions. Mold flash or protrusions shall not exceed .006 (.15) on any side.
3. Pin locations start with Pin 1, and continue counter-clock Pin 8 when viewed from the top. Pin 6 is omitted.
4. Minimum metal to metal spacing at the package body for the omitted lead location is .137 inch (3.48 mm).
5. Lead width measured at package body.
6. D and E are referenced datums on the package body.

G08B

PI-2546-090601

RECOMMENDED IR REFLOW TEMPERATURE PROFILE FOR SURFACE MOUNT ASSEMBLY



Notes:

1. **Profile is applicable to the following PI packages: TO-263-7C, SMD-8, and SMD-8B.**
2. **Controlling specification is IPC/JEDEC Standard J-STD-020A.**
3. **Moisture sensitivity level must be maintained at MSL-4 or as indicated on product packaging material.**

PI-2784-102201