DATA SHEET

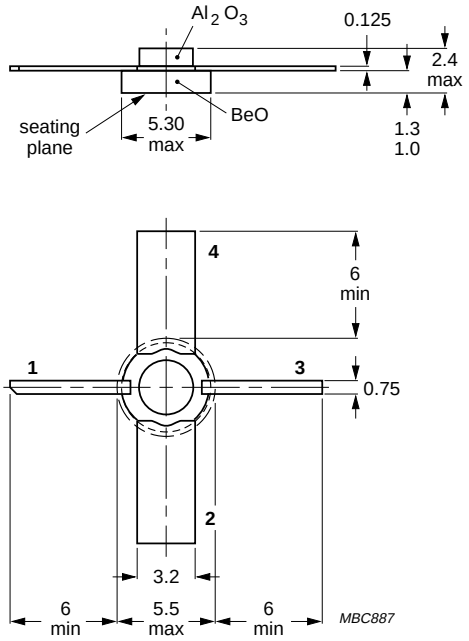
Package outlines
RF Power Transistors for UHF

1996 Feb 20

File under Discrete Semiconductors, SC08b

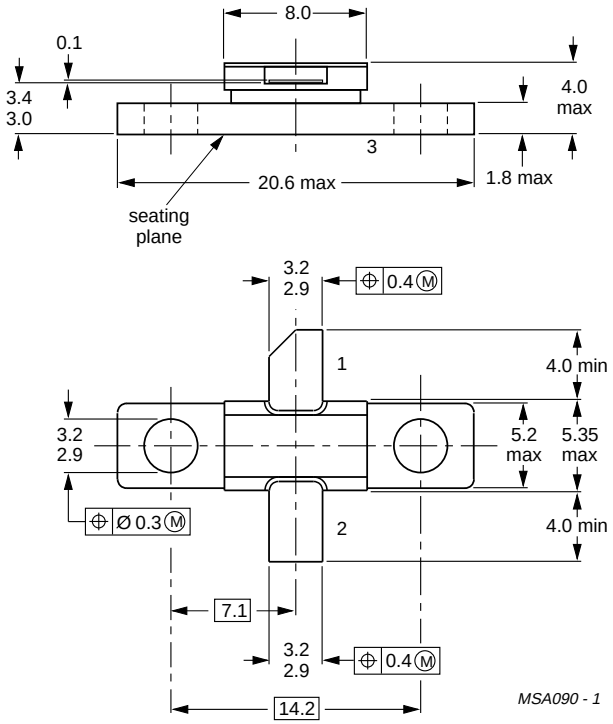
Philips
Semiconductors

PHILIPS



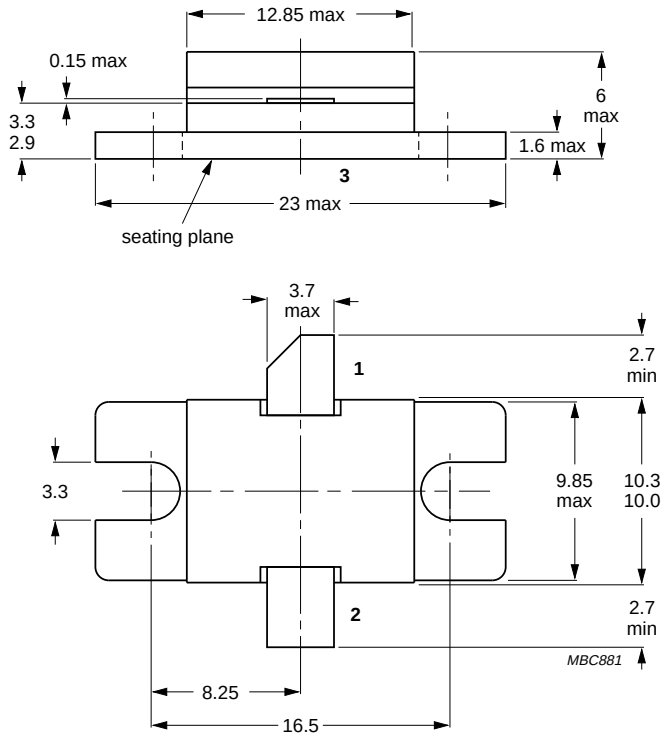
Dimensions in mm.
Torque on nut: min. 0.75 Nm; max. 0.4 Nm.

Fig.1 FO-45.



Dimensions in mm.
Torque on nut: max. 0.4 Nm.
Recommended screw: M2.5.

Fig.2 FO-83A.



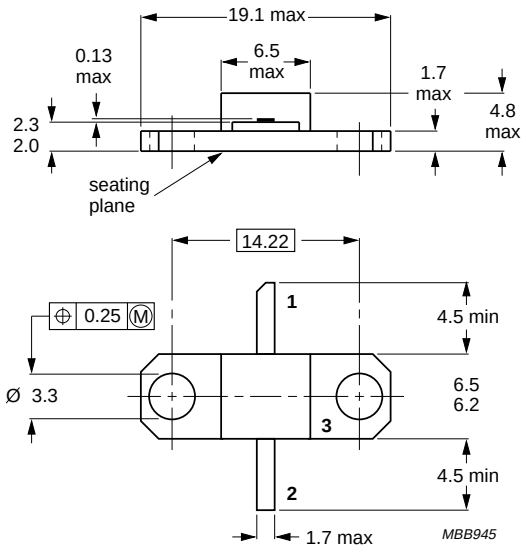
Dimensions in mm.

Torque on nut: max. 0.4 Nm.

Recommended screw: M3.

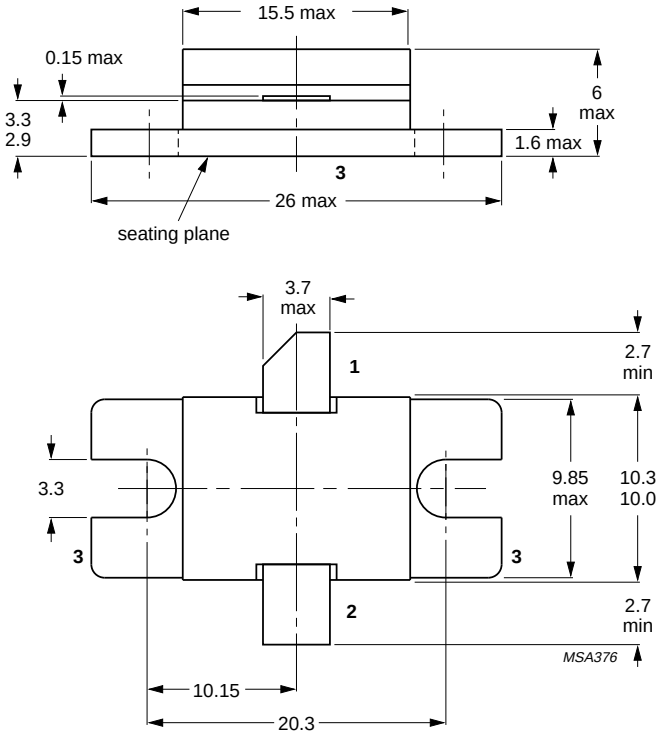
Recommended pitch for mounting screw: 19 mm.

Fig.3 FO-91.



Dimensions in mm.
Torque on nut: max. 0.5 Nm.
Recommended screw: M3.
Recommended pitch for mounting screw: 19 mm.

Fig.4 FO-229.

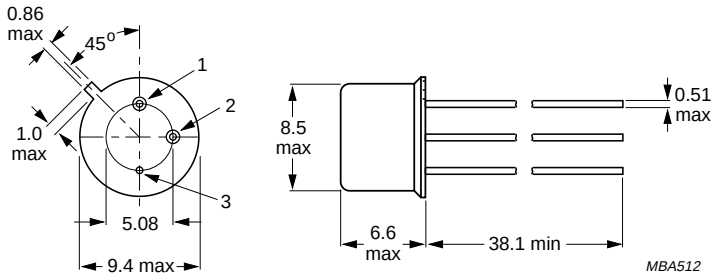


Dimensions in mm.

Torque on screws: max. 0.5 Nm.

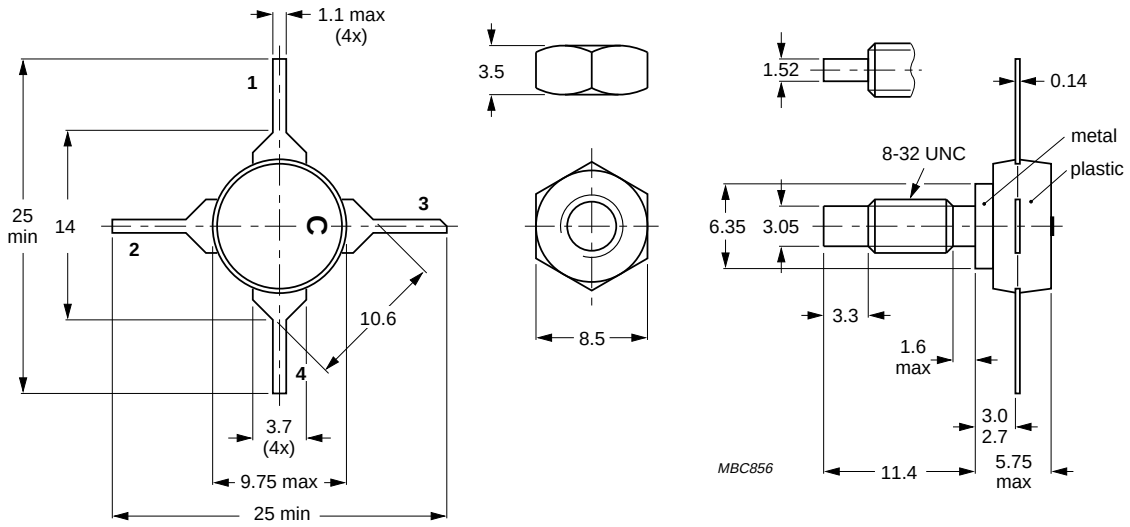
Recommended screw: M3.

Fig.5 FO-231.



Dimensions in mm.

Fig.6 SOT5 (TO-39/1; TO-39/3).



Dimensions in mm.

Torque on nut: min. 0.75 Nm; max. 0.85 Nm.

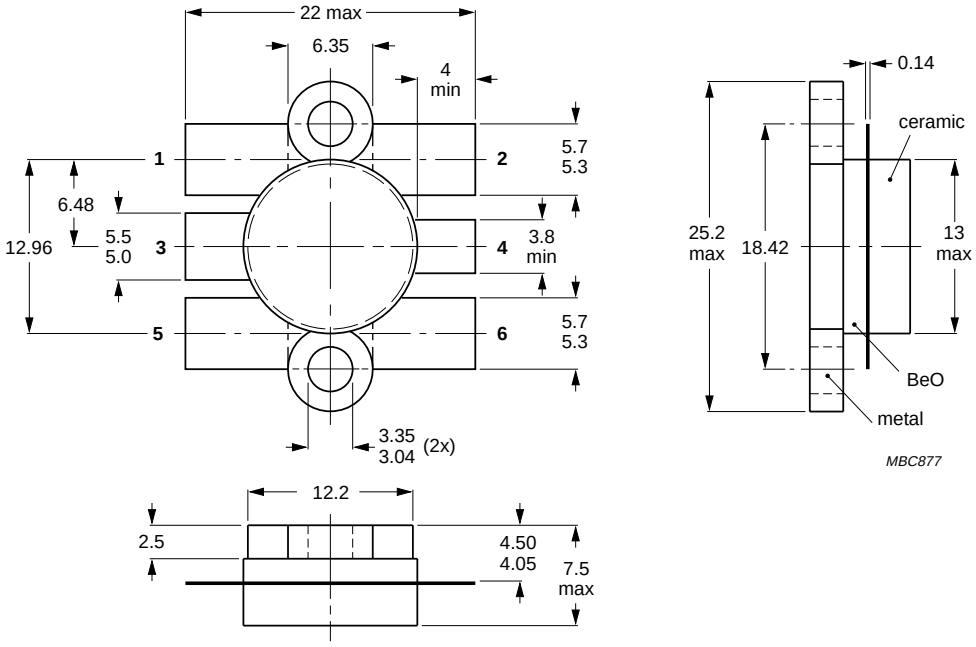
Diameter of clearance hole in heatsink: max. 4.2 mm.

Mounting hole to have no burrs at either end.

De-burring must leave surface flat; do not chamfer or countersink either end of hole.

When locking is required an adhesive is preferred instead of a lock washer.

Fig.7 SOT48/3.



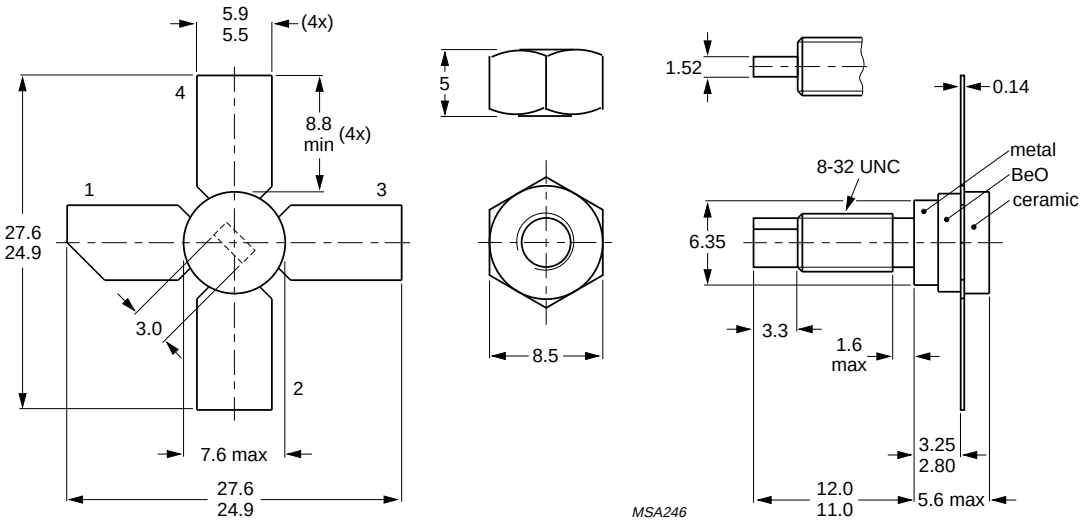
Dimensions in mm.

Torque on screw: min. 0.6 Nm; max. 0.75 Nm.

Recommended screw: cheese-head 4-40 UNC/2A.

Heatsink compound must be applied sparingly and evenly distributed.

Fig.8 SOT119A.



Dimensions in mm.

Torque on nut: min. 0.75 Nm; max. 0.85 Nm.

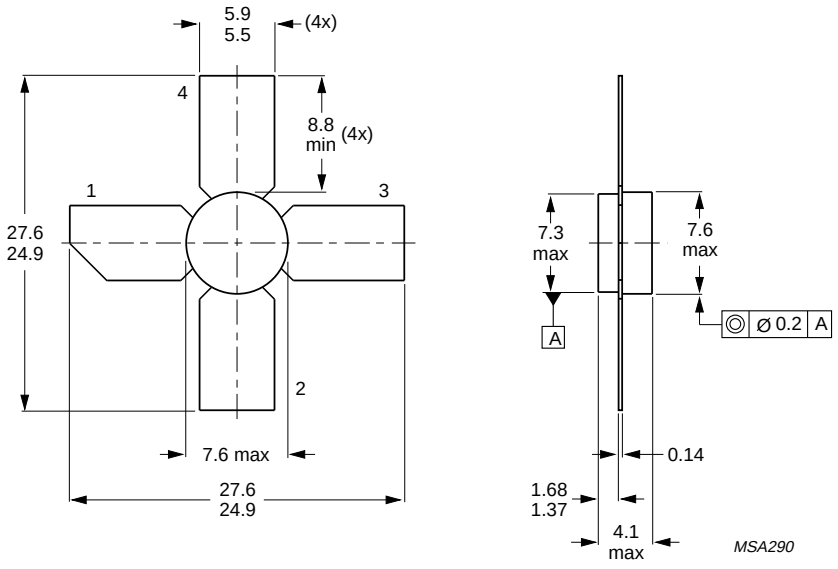
Diameter of clearance hole in heatsink: max. 4.2 mm.

Mounting hole to have no burrs at either end.

De-burring must leave surface flat; do not chamfer or countersink either end of hole.

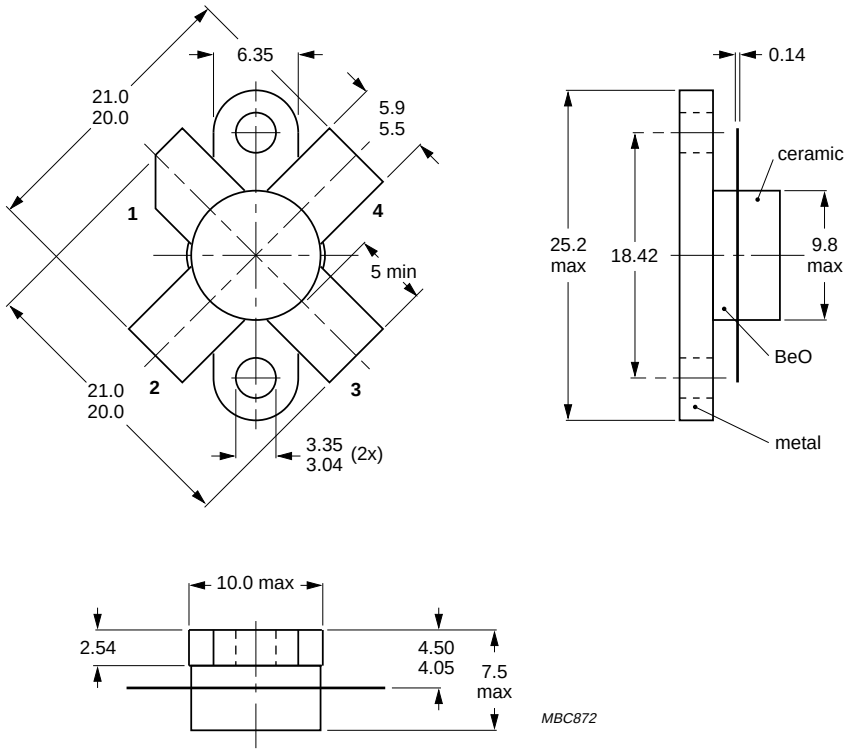
When locking is required an adhesive is preferred instead of a lock washer.

Fig.9 SOT122A.



Dimensions in mm.

Fig.10 SOT122D.



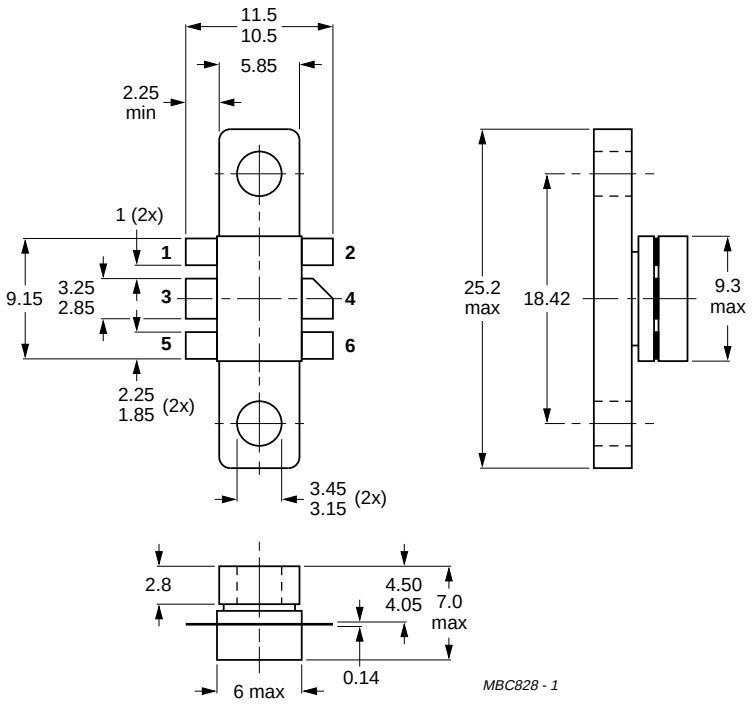
Dimensions in mm.

Torque on screw: min. 0.6 Nm; max. 0.75 Nm.

Recommended screw: cheese-head 4-40 UNC/2A.

Heatsink compound must be applied sparingly and evenly distributed.

Fig.11 SOT123.



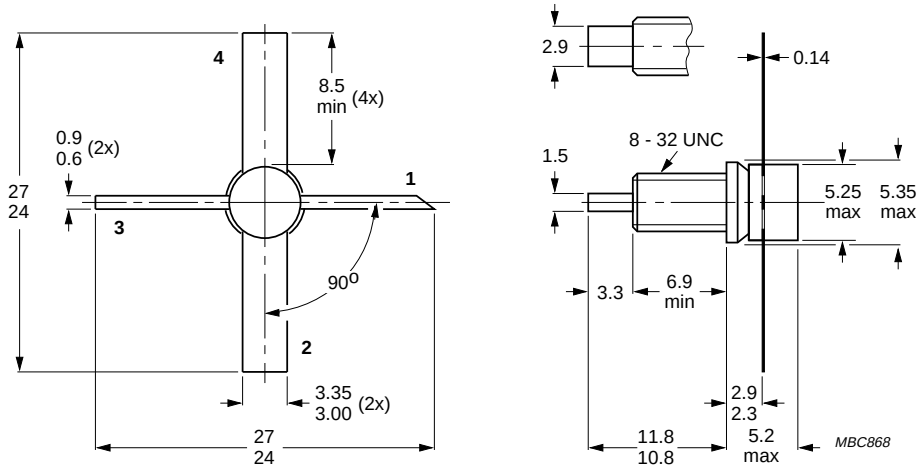
Dimensions in mm.

Torque on screw: min. 0.6 Nm; max. 0.75 Nm.

Recommended screw: cheese-head 4-40 UNC/2A.

Heatsink compound must be applied sparingly and evenly distributed.

Fig.12 SOT171.



Dimensions in mm.

Torque on nut: min. 0.75 Nm; max. 0.85 Nm.

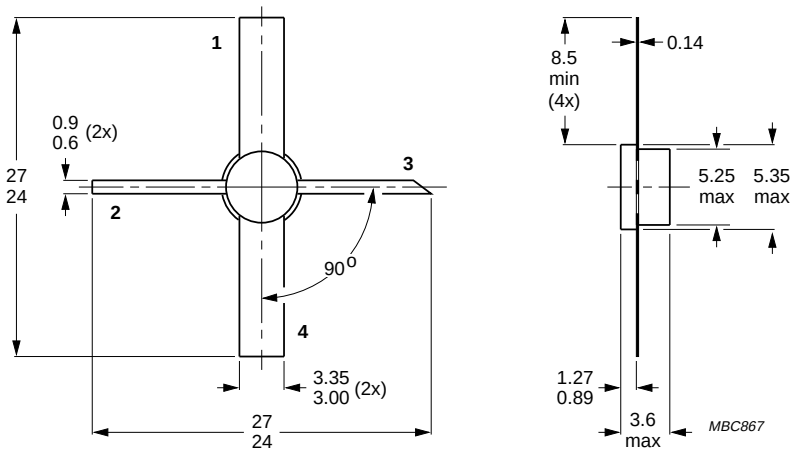
Diameter of clearance hole in heatsink: max. 4.2 mm.

Mounting hole to have no burrs at either end.

De-burring must leave surface flat; do not chamfer or countersink either end of hole.

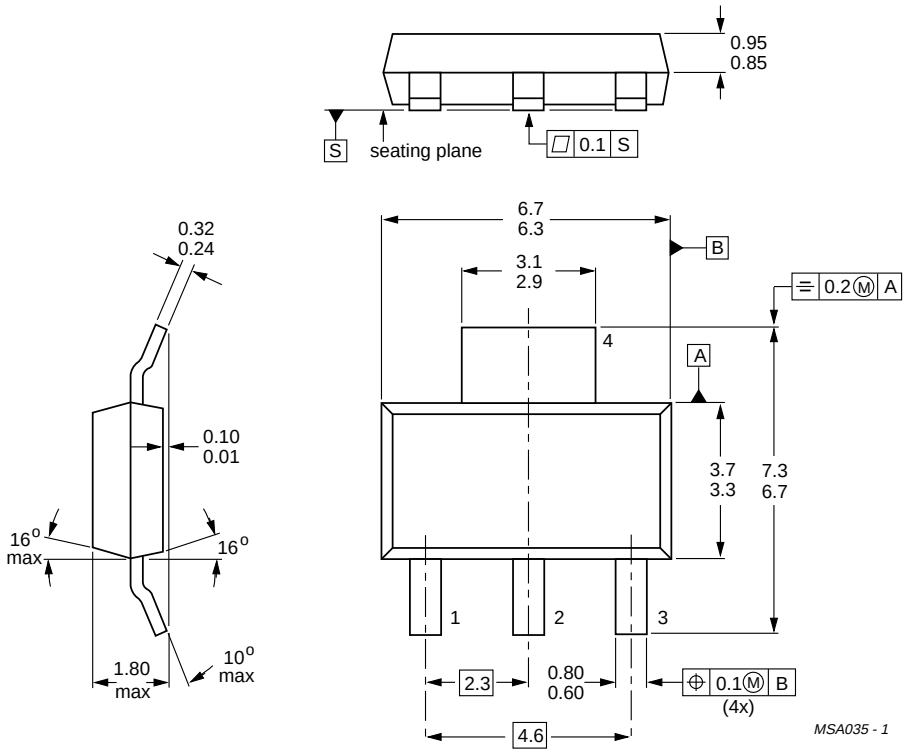
When locking is required an adhesive is preferred instead of a lock washer.

Fig.13 SOT172A1.



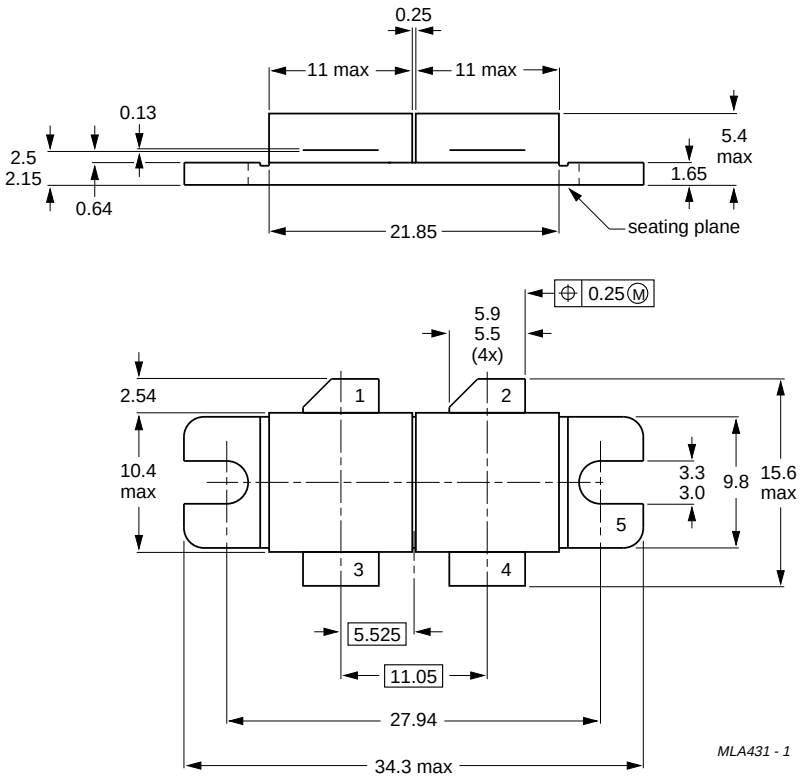
Dimensions in mm.

Fig.14 SOT172D1.



Dimensions in mm.

Fig.15 SOT223.



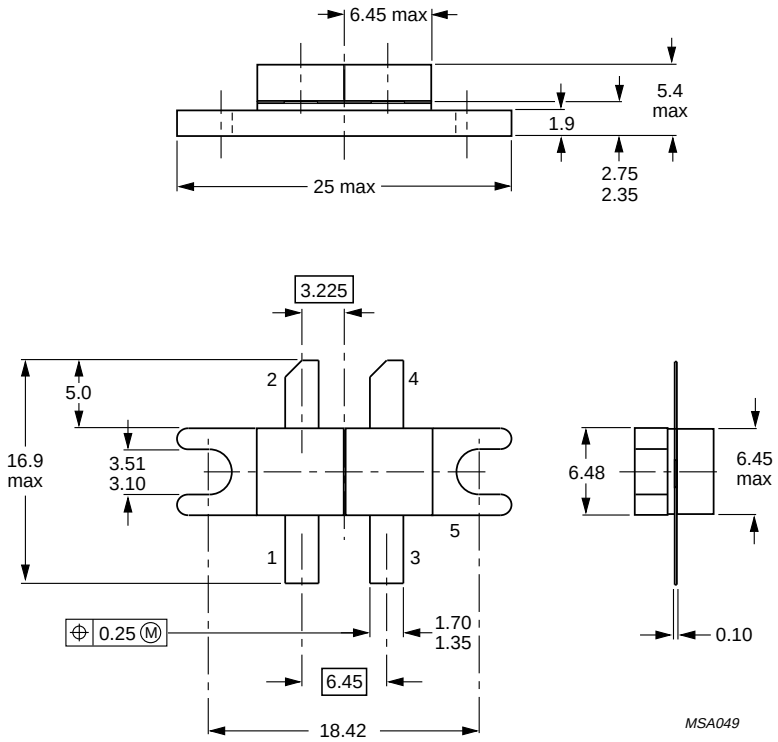
Dimensions in mm.

Torque on screw: min. 0.6 Nm; max. 0.75 Nm.

Recommended screw: cheese-head 4-40 UNC/2A.

Heatsink compound must be applied sparingly and evenly distributed.

Fig.16 SOT262A2.



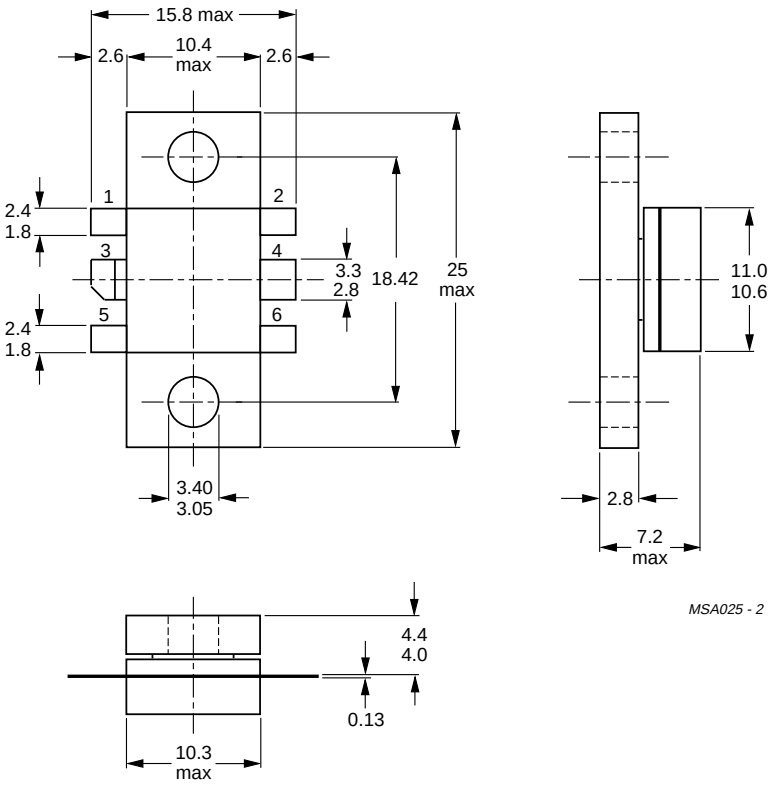
Dimensions in mm.

Torque on screw: min. 0.6 Nm; max. 0.75 Nm.

Recommended screw: cheese-head 4-40 UNC/2A.

Heatsink compound must be applied sparingly and evenly distributed.

Fig.17 SOT268.



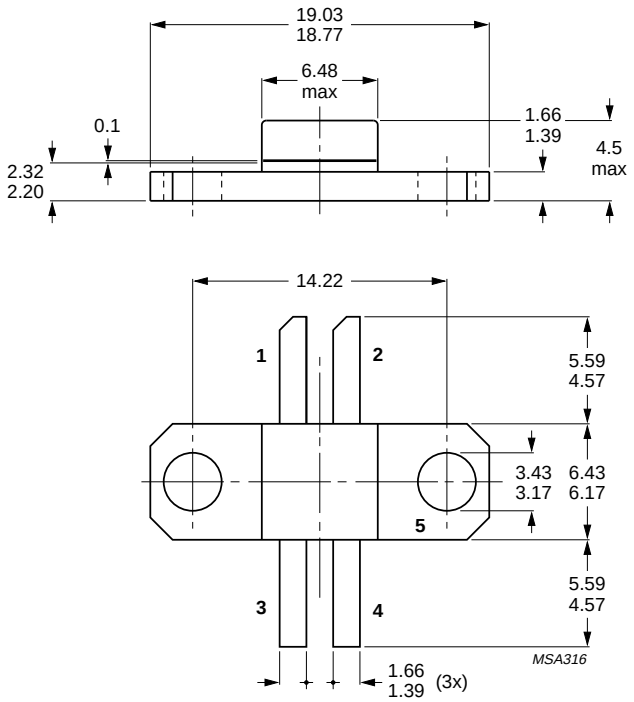
Dimensions in mm.

Torque on screw: min. 0.6 Nm; max. 0.75 Nm.

Recommended screw: cheese-head 4-40 UNC/2A.

Heatsink compound must be applied sparingly and evenly distributed.

Fig.18 SOT273.



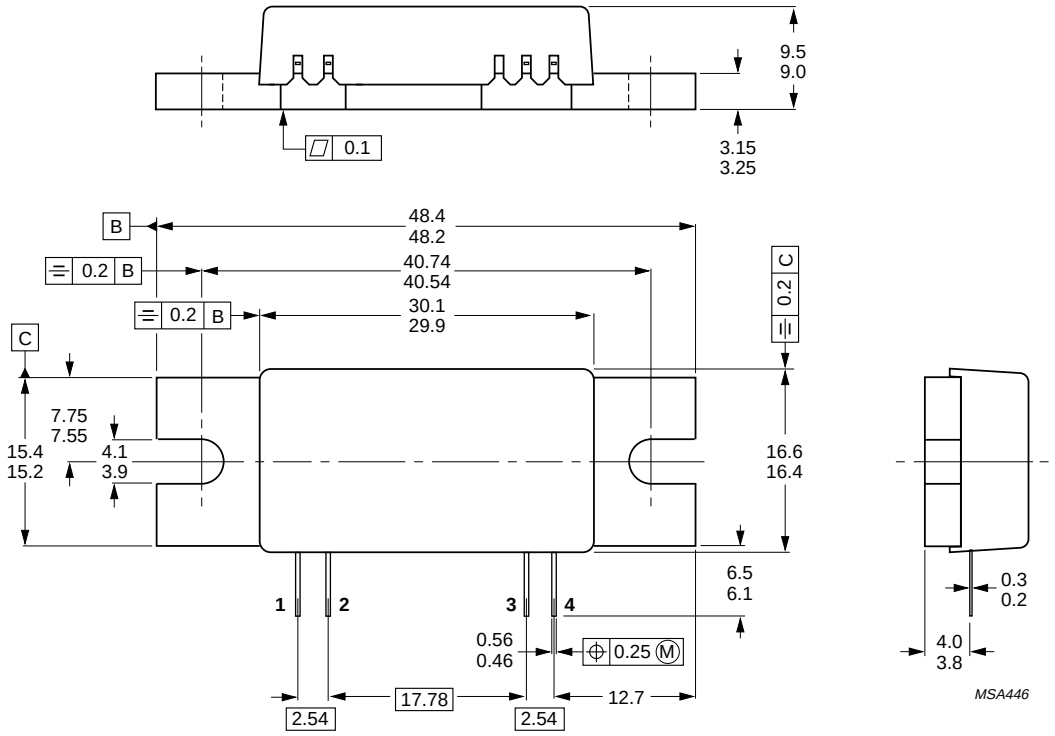
Dimensions in mm.

Torque on screw: min. 0.6 Nm; max. 0.75 Nm.

Recommended screw: cheese-head 4-40 UNC/2A.

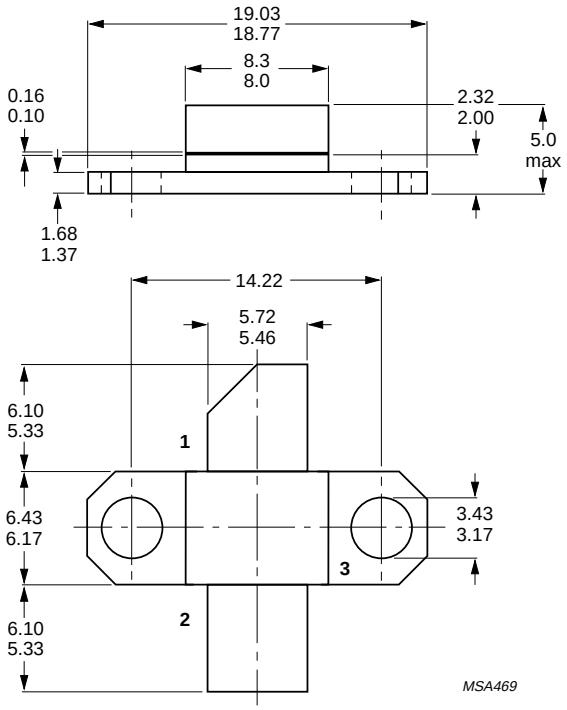
Heatsink compound must be applied sparingly and evenly distributed.

Fig.19 SOT324.



Dimensions in mm.

Fig.20 SOT365A.

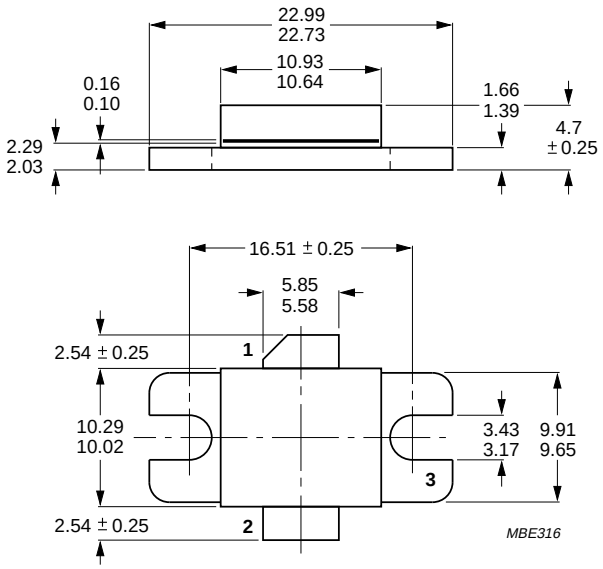


Dimensions in mm.

Recommended screw: M3.

Torque on screws: max. 0.5 Nm.

Fig.21 SOT390A.



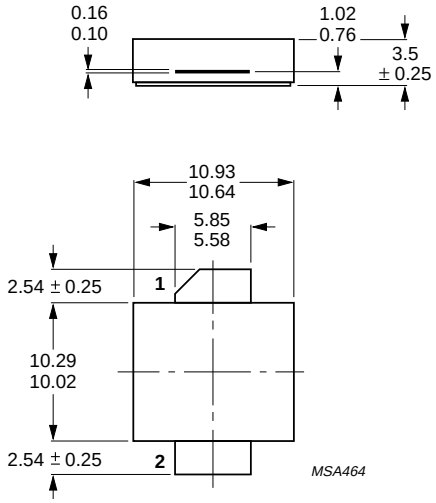
Dimensions in mm.

Torque on screw: min. 0.6 Nm; max. 0.75 Nm.

Recommended screw: cheese-head 4-40 UNC/2A.

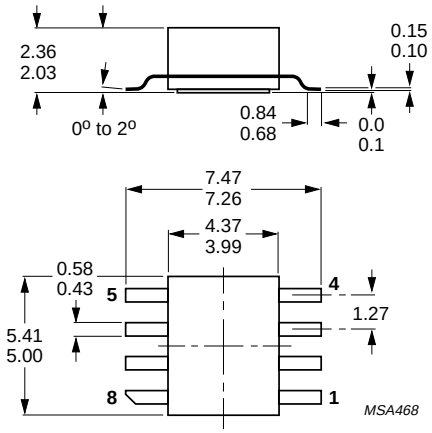
Heatsink compound must be applied sparingly and evenly distributed.

Fig.22 SOT391.



Dimensions in mm.

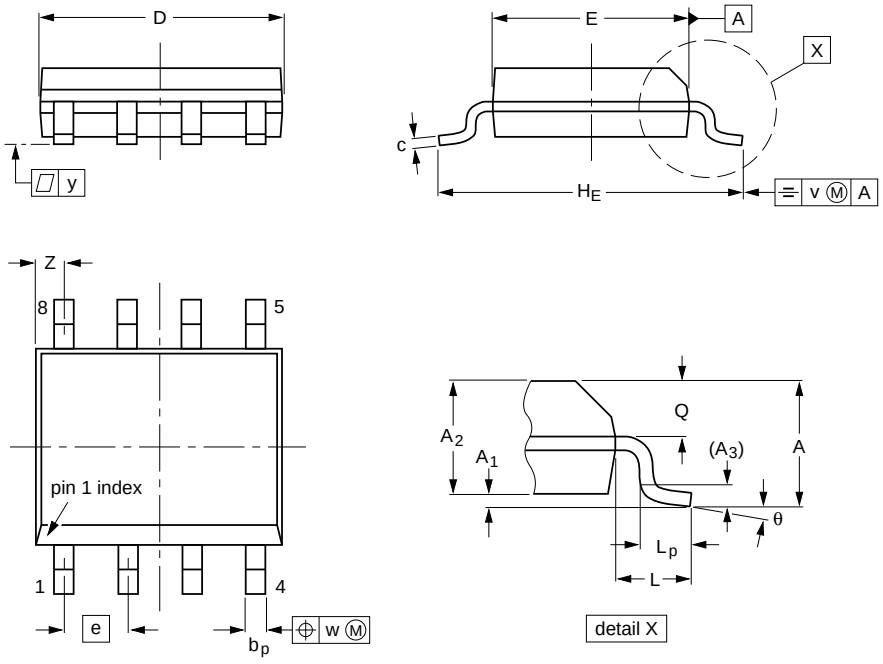
Fig.23 SOT391B.



Dimensions in mm.

Fig.24 SOT409B (SO8).

SO8: plastic small outline package; 8 leads; body width 3.9 mm **SOT96-1**



DIMENSIONS (inch dimensions are derived from the original mm dimensions)

UNIT	A max.	A_1	A_2	A_3	b_p	c	$D^{(1)}$	$E^{(2)}$	e	H_E	L	L_p	Q	v	w	y	$Z^{(1)}$	θ
mm	1.75	0.25 0.10	1.45 1.25	0.25	0.49 0.36	0.25 0.19	5.0 4.8	4.0 3.8	1.27	6.2 5.8	1.05	1.0 0.4	0.7 0.6	0.25	0.25	0.1	0.7 0.3	8^o 0^o
inches	0.069	0.0098 0.0039	0.057 0.049	0.01	0.019 0.014	0.0098 0.0075	0.20 0.19	0.16 0.15	0.050	0.24 0.23	0.041	0.039 0.016	0.028 0.024	0.01	0.01	0.004	0.028 0.012	

Notes

1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.
2. Plastic or metal protrusions of 0.25 mm maximum per side are not included.

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT96-1	076E03S	MS-012AA				~~92-11-17~~ 95-02-04