DATA SHEET

Package outlines
RF Power Transistors for UHF

File under Discrete Semiconductors, SC08b

1996 Feb 20
RF Power Transistors for UHF

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).**
Fig. 7  SOT48/3.

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.
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.
RF Power Transistors for UHF

Package outlines

Fig. 10  SOT122D.

Dimensions in mm.
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.
Philips Semiconductors

RF Power Transistors for UHF

Package outlines

Fig.14  SOT172D1.

Dimensions in mm.
Philips Semiconductors

RF Power Transistors for UHF

Package outlines

Fig.15  SOT223.

Dimensions in mm.

MS4035 - 1
Philips Semiconductors

RF Power Transistors for UHF

Package outlines

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.

MLA431 - 1
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.
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.
Philips Semiconductors

RF Power Transistors for UHF

Dimensions in mm.

Fig. 20  SOT365A.
Fig. 21  SOT390A.

Dimensions in mm.
Recommended screw: M3.
Torque on screws: max. 0.5 Nm.
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.
Fig. 23  SOT391B.

Dimensions in mm.
Fig. 24 SOT409B (SO8).

Dimensions in mm.
RF Power Transistors for UHF

Package outlines

SO8: plastic small outline package; 8 leads; body width 3.9 mm

SOT96-1

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

<table>
<thead>
<tr>
<th>UNIT</th>
<th>A</th>
<th>A1</th>
<th>A2</th>
<th>A3</th>
<th>b</th>
<th>c</th>
<th>D(1)</th>
<th>E(2)</th>
<th>e</th>
<th>H</th>
<th>L</th>
<th>Lp</th>
<th>Q</th>
<th>v</th>
<th>w</th>
<th>y</th>
<th>Z(1)</th>
<th>θ</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>1.75</td>
<td>0.25</td>
<td>1.45</td>
<td>0.25</td>
<td>0.49</td>
<td>0.25</td>
<td>5.0</td>
<td>4.0</td>
<td>1.27</td>
<td>6.2</td>
<td>1.06</td>
<td>1.0</td>
<td>0.7</td>
<td>0.25</td>
<td>0.25</td>
<td>0.1</td>
<td>0.7</td>
<td>0.3</td>
</tr>
<tr>
<td>inches</td>
<td>0.069</td>
<td>0.0098</td>
<td>0.057</td>
<td>0.0049</td>
<td>0.019</td>
<td>0.014</td>
<td>0.0098</td>
<td>0.0075</td>
<td>0.20</td>
<td>0.16</td>
<td>0.15</td>
<td>0.050</td>
<td>0.24</td>
<td>0.041</td>
<td>0.039</td>
<td>0.028</td>
<td>0.024</td>
<td>0.01</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>IEC</th>
<th>JEDEC</th>
<th>EIAJ</th>
<th>EUROPEAN PROJECTION</th>
<th>ISSUE DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOT96-1</td>
<td>076E03S</td>
<td>MS-012AA</td>
<td></td>
<td>92-11-12, 95-02-04</td>
</tr>
</tbody>
</table>