

Lead-Free Surface Mount Tantalum Capacitors

Dummy Components

Surface Mount Molded Tantalum Capacitors (SMTA) are polarized capacitors with solderable terminations. Surface Mount Tantalum packages are identified by case size i.e.: A, B, C and D. These case sizes stand for metric footprints of length and width. For example: A = 3.2 x 1.6mm; B = 3.5 x 2.8mm; C = 6.0 x 3.2mm; D = 7.3 x 4.3mm.

**SMTA Surface Mount Tantalum Capacitors**

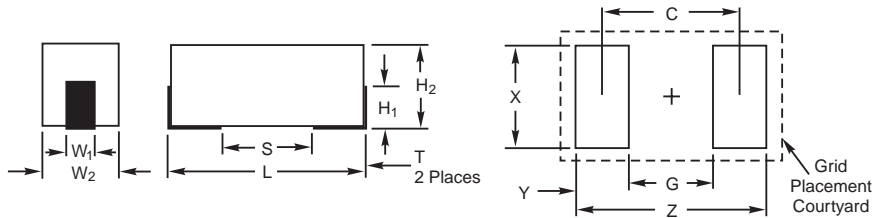
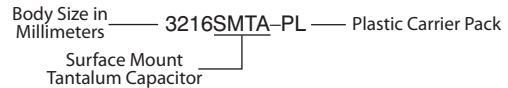
Part Description	Body Size	Case Size	Tape Width	Tape Pitch	Quantity 7" Reel
1608SMTA-PL-Sn	1.6 x .85mm	R (smaller than A case)	8mm	4mm	500
3216SMTA-PL-Sn	3.2 x 1.6mm	A	8mm	4mm	2,000
3528SMTA-PL-Sn	3.5 x 2.8mm	B	8mm	4mm	2,000
6032SMTA-PL-Sn	6.0 x 3.2mm	C	12mm	8mm	500/750
7343SMTA-PL-Sn	7.3 x 4.3mm	D	12mm	8mm	500/750

**Notes**

- Components are molded, surface mount tantalums.
- Conformal coated tantalums are available.
- Please call for availability of mil-spec surface mount tantalums.
- Standard reel size is 7" (larger sizes are available upon request).
- All tantalum capacitors are on plastic carrier tape.
- Tantalums are now available as standard lead-free with 100% Sn finish.
- SnPb is available upon request based on availability.



**Part Description System**



Plastic Dual In-Line Packages (PDIP) are long-established industry standard through-hole packages.

**PDIP Plastic Dual In-Line Package**

Part Description	Number of Pins	Body Size (body length in inches)	Quantity Per Tube
<i>300 mil wide body</i>			
PDIP8-300	8	.360"	50
PDIP14-300	14	.750"	25
PDIP16-300	16	.750"	25
PDIP18-300	18	.900"	21
PDIP20-300	20	1.030"	18
PDIP24-300	24	1.250"	15

*Daisy-Chain Available*

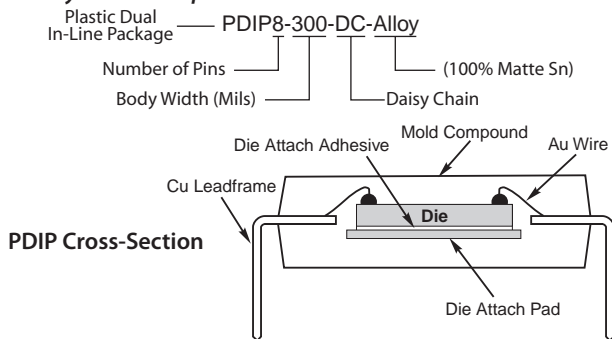
**Notes**

- Eutectic solder plating finish is 85% Sn/15% Pb.
- High conductivity copper leadframe.
- JEDEC standard compliant.
- Parts packaged in anti-static 20" tubes.
- Lead-free available with 100% Sn Matte alloy.
- Pitch is 100 mils.



For kits see pages 83, 64, 70, 76, 77, 81 and 84.

**Part System Description**



**Through-Hole Glass Diodes**

Axial Leaded Through-hole Glass Diode package has been in use for over 50 years in the electronics industry. The body of these parts are glass and the package is hermetically sealed. The "DO" prefix is a JEDEC designation

for through-hole diodes. The 34 and 35 references case size. These type of components are packaged on ammo pack or bulk. In most cases, these parts are sold as training aids to teach new operators how to solder.

**Axial Leaded Through-Hole Glass Diode**

Part Description	References		Case Size		Lead Diameter
	(JEDEC)	(EIAJ)	(Inch)	(mm)	
DO-34	DO-34		0.0629" x 0.1197"	1.6 x 3.04mm	.55mm
DO-35	DO-35	SC-40	0.0728" x 0.1673"	1.85 x 4.25mm	.56mm

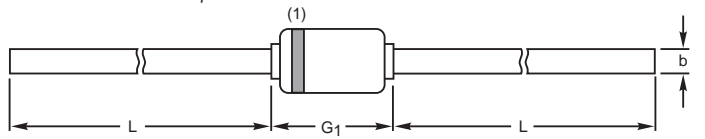
**Notes**

- Part is hermetically sealed glass package.
- Axial leaded (2 leads).
- Parts are packaged Ammo pack (5K per reel) or bulk.
- Lead-free available with 100% Sn alloy.



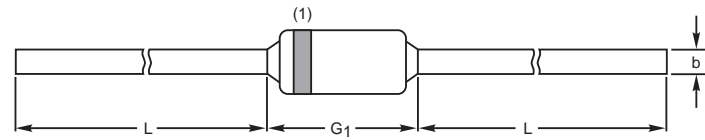
**DO-34**

Unit	b Max	D Max	G <sub>1</sub> Max	L Min
mm	0.55	1.6	3.04	25.4

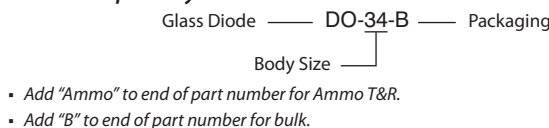


**DO-35**

Unit	b Max	D Max	G <sub>1</sub> Max	L Min
mm	0.56	1.85	4.25	25.4



**Part Description System**



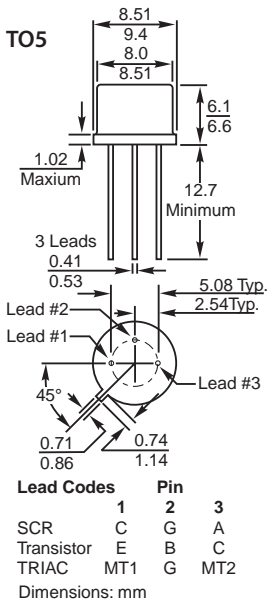
- Add "Ammo" to end of part number for Ammo T&R.
- Add "B" to end of part number for bulk.

TO type components are through-hole transistors. These are basic electronic components developed in the last forty years. There are many additional types of TO components not listed. TO components come

packaged in tubes, bulk, and tape and reel. Not all components types are available in all packaging styles. Please call for availability. Parts are available lead-free with Sn finish.

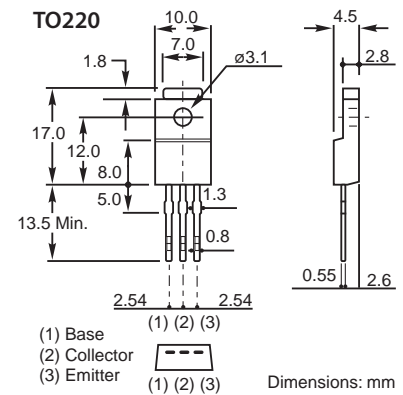
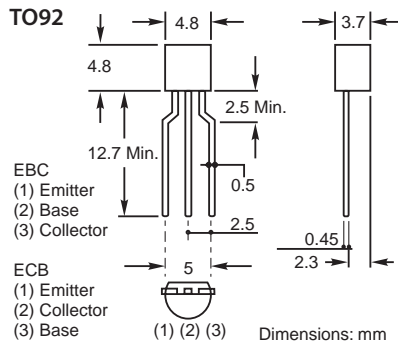
**TO Through-Hole Transistors**

Part Description	Number of Pins	Case Material
TO5-3-B	3	Metal
TO18-3-B	3	Metal
TO92-3-B	3	Plastic
TO220-3-B	3	Plastic



**Part Description System**

Transistor Package — TO5-3-B — Packaging  
 Number of Pins



For kits see pages 83, 70, 76, 77, 81 and 84.

**Axial Leaded Resistors**

Axial Leaded Resistors are through-hole mounted components. The Practical Components part numbering system for this type of component is based on wattage ratings, i.e.; 1/2 watt = 1/2-W-AR-3.5x9.5MM. AR components are available in bulk, tape and reel or ammo pak.

**Axial Leaded Resistors**

Part Description	Type	Dimensions (mm)				
		L	C	D	l	d
1/8-W-AR-1.6X3.7mm-TR	CF 1/8	3.00 ± 0.1	3.5 Max	1.70 ± 0.2	28.0 ± 3.0	0.45 ± 0.05
1/4-W-AR-2.3X6.5mm-TR	CF 1/4	6.35 ± 0.5	7.1 Max	2.30 ± 0.3	28.0 ± 3.0	0.60 ± 0.05
1/2-W-AR-3.5X9.5mm-TR	CF 1/2	8.51 ± 0.5	9.52 Max	3.00 ± 0.3	28.0 ± 3.0	0.60 ± 0.05

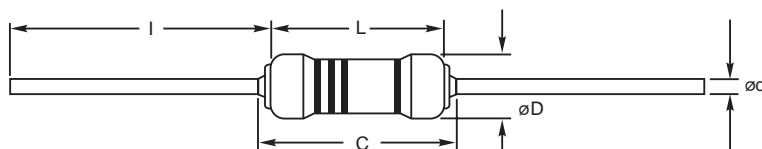
**Notes**

- Parts are conformal coated resistors—carbon film type.
- TR = Tape and Reel
- Lead-Free and Zero-Ohm value parts available



**Part Description System**

Wattage Size — 1/8-W-AR-1.6x3.7mm-TR — Tape and Reel  
 Axial Resistor Package Body Size



For kits see pages 83, 70, 76, 77, 81 and 84.