

Material Composition Specification

TO-126 Case



Device average mass **660.1 mg**
 Fluctuation margin **+/-10%**

Component	Material	Material		Substance	CAS No.	Substance		
		(%wt)	(mg)			(%wt)	(mg)	(ppm)
active device	doped Si	0.15%	1.01	Si	7440-21-3	0.15%	1.01	1,530
bond wire	copper	0.31%	2.03	Cu	7440-50-8	0.31%	2.03	3,075
leadframe	Cu alloy w/ silver plating	45.90%	303	Cu	7440-50-8	45.1%	297.70	450,992
				Fe	7439-89-6	0.05%	0.31	470
				Ag	7440-22-4	0.76%	5.0	7,575
die attach	silver epoxy	0.30%	2.00	Pb	7439-92-1	0.28%	1.87	2,833
				Sn	7440-31-5	0.02%	0.10	151
				Ag	7440-22-4	0%	0.03	45
encapsulation	EMC	52.72%	348	silica	7631-86-9	36.91%	243.62	369,065
				epoxy resin	Proprietary	14.23%	93.94	142,312
				Sb ₂ O ₃	1309-64-4	0.79%	5.22	7,908
				TBBA	79-94-7	0.79%	5.22	7,908
plating*	tin/lead process	0.61%	4.05	Sn	7440-31-5	0.49%	3.25	4,923
				Pb	7439-92-1	0.12%	0.80	1,212
	matte tin	0.61%	4.05	Sn	7440-31-5	0.61%	4.05	6,135

*For Lead Free plating, add suffix "PB FREE" to part number.
 For Tin/Lead plating, add suffix "TIN/LEAD" to part number.
 No suffix designation allows for the supply of either lead-free or tin/lead plated product depending on availability.

Disclaimer
 The information provided in this Material Composition data sheet is, to the best of our knowledge, correct. However, there is no guarantee to completeness or accuracy, as some information is derived from data sources outside the company.

R2 (16-July 2018)