RECTRON
RECTIFIER SPECIALISTS

TO-247 Rectifier

Material Content Declaration					
Material name	**Substance name e.g. Copper (Cu),**	**CAS no., if known**	**Substance mass (mg)**	**% OF Weight (%)**	**ppm Of Total Weight**
Lead Frame 65%	Copper (Cu)	7440-50-8	3,834.20	99.81	648,734.2
	Phosphorus (P)	7723-14-0	1.54	0.04	260.6
	Iron (Fe)	7439-89-6	5.76	0.15	974.6
	Total		**3,841.50**		
Solder Wire 0.09%	Lead (Pb)	7439-92-1	4.92	92.50	832.4
	Tin (Sn)	7440-31-5	0.266	5.00	45.0
	Silver (Ag)	7440-22-4	0.133	2.50	22.5
	Total		**5.319**		
Aluminum Wire 0.3%	Aluminum (Al)	7429-90-5	17.73	100.00	2,999.9
	Total		**17.73**		
Chip 0.32%	Silicon (Si)	7440-21-3	17.87	95.40	3,023.3
	Lead (Pb)	7439-92-1	0.86	4.60	145.8
	Total		**18.73**		
Molding 33.38%	Silica (SiO2)	7631-86-9	1,499.41	76.00	253,695.3
	Epoxy resin	29690-82-2	217.02	11.00	36,719.1
	Phenolic resin	9003-35-4	118.37	6.00	20,027.8
	Metallhydroxid	Trade secret	124.29	6.30	21,029.5
	Carbon Black	1333-86-4	13.81	0.70	2,336.6
	Total		**1,972.90**		
Plating 0.91%	Tin (Sn)	7440-31-5	54.055	99.92	9,145.9
	Lead (Pb)	7439-92-1	0.02	0.03	2.5
	Antimony (Sb)	1309-64-4	0.01	0.01	184.8
	Copper (Cu)	7440-50-8	0.02	0.04	3.4
	Total		**54.10**		
	Total mass (mg)		**5,910.279**		