



## Material Content Data Sheet



Sales Product Name	BTS441RS			Issued		29. August 2013		
MA#	MA000419480							
Package	PG-TO220-5-12			Weight*		2157.55 mg		
Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip	inorganic material	silicon	7440-21-3	8.276	0.38	0.38	3836	3836
leadframe	non noble metal	iron	7439-89-6	0.923	0.04		428	
	inorganic material	phosphorus	7723-14-0	0.277	0.01		128	
	non noble metal	copper	7440-50-8	921.567	42.70	42.75	427138	427694
wire	non noble metal	aluminium	7429-90-5	3.580	0.17	0.17	1659	1659
encapsulation	organic material	carbon black	1333-86-4	1.199	0.06		556	
	plastics	epoxy resin	-	55.160	2.56		25566	
	inorganic material	silicondioxide	60676-86-0	543.204	25.18	27.80	251769	277891
leadfinish	non noble metal	tin	7440-31-5	24.181	1.12	1.12	11208	11208
plating	inorganic material	phosphorus	7723-14-0	0.008	0.00		4	
	non noble metal	nickel	7440-02-0	3.285	0.15	0.15	1522	1526
solder	noble metal	silver	7440-22-4	0.141	0.01		65	
	non noble metal	tin	7440-31-5	0.113	0.01		52	
	non noble metal	lead	7439-92-1	5.398	0.25	0.27	2502	2619
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		82	
	non noble metal	iron	7439-89-6	0.590	0.03		274	
	non noble metal	copper	7440-50-8	589.466	27.32	27.36	273211	273567
*deviation	< 10%	Sum in total:			100,00		1000000	

### Important Remarks:

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