

Smart Power MOSFETs - continued

Fully Protected MOSFET Switches - continued

V _{clamp}	V _{cc (op) min.}	V _{cc (op) max.}	R _{DS(on)}	I _{lim}	T _{shut-down}	V _{open load}	P _D @ 25°C	Package	Mfrs. List No.
V	V	V	Ω	A	°C	V	W		
50	5.5	35	0.055	10	165	3	40	TO-263 (D2-Pak)	IPS521S.
50	5.5	35	0.025	35	165	—	2	TO-220-5	IPS5451
50	5.5	35	0.025	35	165	—	1.56	TO-263 (D2-Pak)	IPS5451S
50	—	45	0.019	35	165	—	2	TO-220AB	IPS5751
50	—	45	19	35	165	—	2	TO-263 (D2-Pak)	IPS5751S

Mfrs. List No.	Order Code	1+	25+	100+	250+	+
IPS0151	315-7520▲	236.00	169.00	145.00	139.00	--
IPS0151PBF	910-3775●	236.00	169.00	129.00	111.00	--
IPS0151S.	NEW SMD 489-6877▲	255.00	195.00	153.00	--	--
IPS0151S.PBF	SMD 910-3678●	255.00	195.00	144.00	--	--
IPS021	315-7532▲	124.00	89.00	72.00	65.00	--
IPS021PBF	910-3783●	116.00	89.00	--	--	--
IPS021L	SMD 315-7544▲	79.00	64.00	52.00	48.00	--
IPS021LPBF	SMD 910-3759●	83.00	66.00	--	--	--
IPS022G	SMD 315-7556▲	143.00	118.00	96.00	--	--
IPS022GPBF	SMD 910-3708●	164.00	118.00	90.00	77.00	--
IPS031	315-7568▲	176.00	141.00	--	--	--
IPS031PBF	910-3791●	191.00	137.00	104.00	90.00	--
IPS031S	SMD 393-9595▲	202.00	145.00	124.00	119.00	--
IPS031SPBF	SMD 910-3643●	202.00	145.00	111.00	95.00	--
IPS031G	SMD 315-7570▲	144.00	107.00	85.00	77.00	--
IPS031GPBF	SMD 910-3716●	146.00	112.00	--	--	--
IPS041L	SMD 315-7581▲	66.00	48.00	41.00	36.00	--
IPS041LPBF	SMD 910-3767●	74.00	56.00	--	--	--
IPS042G	SMD 315-7593▲	148.00	113.00	--	--	--
IPS042GPBF	SMD 910-3724●	143.00	102.00	78.00	67.00	--
IPS511	315-7600▲	168.00	121.00	98.00	89.00	--
IPS511PBF	910-3813●	174.00	133.00	--	--	--
IPS511G	SMD 315-7611▲	112.00	77.00	67.00	--	--
IPS511GPBF	SMD 910-3732●	135.00	97.00	74.00	63.00	--
IPS511S	SMD 393-9601▲	179.00	129.00	110.00	106.00	--
IPS511SPBF	SMD 910-3651●	179.00	129.00	98.00	85.00	--
IPS521	315-7623▲	216.00	169.00	137.00	125.00	--
IPS521PBF	910-3821●	217.00	175.00	--	--	--
IPS521G	SMD 315-7635▲	202.00	145.00	124.00	119.00	--
IPS521GPBF	SMD 910-3740●	209.00	160.00	--	--	--
IPS521S.	NEW SMD 489-6889▲	247.00	177.00	144.00	131.00	--
IPS521S.PBF	SMD 910-3686●	280.00	186.00	148.00	--	--
IPS5451	315-7647▲	280.00	201.00	163.00	149.00	--
IPS5451PBF	910-3830●	280.00	201.00	154.00	132.00	--
IPS5451S	SMD 393-9613▲	292.00	209.00	170.00	154.00	--
IPS5451SPBF	SMD 910-3660●	302.00	231.00	--	--	--
IPS5751	NEW SMD 489-6890▲	375.00	225.00	188.00	184.00	--
IPS5751PBF	910-3805●	280.00	201.00	154.00	132.00	--
IPS5751S	NEW SMD 489-6907▲	292.00	209.00	170.00	154.00	--
IPS5751SPBF	SMD 910-3694●	292.00	209.00	160.00	137.00	--

Mfrs. List No.	Order Code	1+	25+	100+	250+	+
BTS409L1.	743-306	164.00	125.00	101.00	66.00	--
BTS410E2.	743-318	366.00	280.00	227.00	127.00	--
BTS432E2.	743-343▲	314.00	240.00	194.00	--	--
BTS432E2-3062A.	SMD 743-355▲	520.00	402.00	323.00	183.00	--
BTS442E2.	743-367▲	375.00	287.00	247.00	--	--
BTS555.	410-9260▲	480.00	367.00	316.00	--	--
BTS612N1 E3128A.	SMD 410-9284	330.00	252.00	204.00	115.00	--
BTS612N1 E3230.	410-9296	330.00	252.00	204.00	115.00	--
BTS650P.	410-9302	366.00	280.00	241.00	--	--
BTS711L1.	SMD 743-380	320.00	245.00	198.00	--	--
BTS721L1.	SMD 743-392	432.00	331.00	268.00	--	--
BTS723GW.	410-9170	266.00	203.00	175.00	--	--
BTS740S2.	410-9314	293.00	224.00	193.00	--	--

RF MOSFETs

Low Noise, Pseudomorphic HEMT



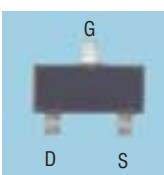
V _{DS} max.	I _d /I _{DSS} max.	P _D max.	P _{in} max.	F typ.	G _o typ.	OIP3 typ.	Test Freq.	Package	Device Marking	Mfrs. List No.
V	mA	mW	dBm	dB	dB	dBm	GHz			
50MHz - 6GHz										
4.5	280	0.35	30	1	15	45.5	2	LPCC	OPX	ATF-501P8
7	300	1	24	0.6	20	38	2	LPCC	3PX	ATF-531P8
7	1000	2.25	30	1.1	15.5	45	2	SOT-89	OGX	ATF-50189

N.B. Device marking X denotes date code

Mfrs. List No.	Order Code	1+	25+	100+	250+	+
ATF-501P8	NEW SMD 782-0399●	373.00	298.00	271.00	257.00	--
ATF-531P8	NEW SMD 782-0402●	285.00	228.00	207.00	196.00	--
ATF-50189	NEW SMD 782-0410●	334.00	267.00	243.00	230.00	--

Junction FETs

SOT-23



V _{DS} max.	Channel Polarity	R _{DS(on)} max. (*typ.)	V _{GS(off)} min.	V _{GS(off)} max.	I _{DSS} min.	I _{DSS} max.	C _{iss} max.	Device Marking	Mfrs. List No.
V		Ω	V	V	mA	mA	pF		
Amplifiers									
25	N	—	—	5	4	10	5	M1	ON BFR30LT1
25	N	35*	2	6.5	24	60	5	Z0	SLX SST310
40	N	750*	0.3	1.5	0.2	1	4.5	P1	SLX SST201
Analogue Switches									
35	N	100	—	3	3	—	12	C3	SLX SST113
35	N	50	1	3	5	—	12	C2	SLX SST112
30	P	300	0.8	2.25	1.5	20	20	S7	SLX SST177

Mfrs. List No.	Order Code	5+	25+	100+	250+	+
BFR30LT1	SMD 934-057▲	28.00	23.00	16.00	11.00	--
BFR30LT1G	NEW SMD 955-8632●	27.00	22.00	16.00	11.00	--
SST112.	SMD 739-194▲	43.00	34.00	30.00	28.00	--
SST112	SMD 955-1344●	43.00	34.00	30.00	28.00	--
SST113.	SMD 739-200▲	34.00	27.00	24.00	22.00	--
SST113	SMD 955-1352●	34.00	27.00	24.00	22.00	--
SST177.	SMD 739-212▲	44.00	35.00	31.00	29.00	--
SST177	SMD 955-1360●	44.00	35.00	31.00	29.00	--
SST201.	SMD 739-224▲	34.00	27.00	24.00	22.00	--
SST201	SMD 955-1379●	34.00	27.00	24.00	22.00	--
SST310.	SMD 739-250▲	37.00	29.00	26.00	24.00	--
SST310	SMD 955-1387●	37.00	29.00	26.00	24.00	--

21 PROFET™ High Sided Switches



- 2nd Generation PROFET with additional protection
- Overload/current limited
- Overvoltage protection (inc. load dump)
- Reverse battery protected
- Over/undervoltage shutdown, with auto-restart and hysteresis
- Loss of ground and V_{bb} protection
- ESD protected
- Fast demagnetisation of inductive loads
- Diagnostic feedback
- Open load detection
- CMOS and TTL compatible input

V _{bb}	R _{DS(on)} *	I _{L (iso)} *	I _{L (sc)} *	Package	Mfrs. List No.
V	mΩ	A	A		
Single Channel					
40	200	2.3	4	TO-220-5	BTS409L1.
42	6	70	130	TO-220-7	BTS650P.
42	2.9	158	400	TO-218AB/5	BTS555.
50	38	20	35	TO-220-5 SMD	BTS432E2-3062A.
60	220	1.8	5	TO-220-5	BTS410E2.
60	38	11	35	TO-220-5	BTS432E2.
60	20	21	70	TO-220-5	BTS442E2.
Dual Channel					
43	200	2.3	4	TO-220-7	BTS612N1 E3128A.
43	200	2.3	4	TO-220-7	BTS612N1 E3230.
43	30	5.5	24	P-DSO-20-9	BTS740S2.
62	100	2.9	8.0	P-DSO-14	BTS723GW.
Quad Channel					
40	210	1.9	3.7	DSO-20	BTS711L1.
40	110	2.7	7.2	DSO-20	BTS721L1.

* per channel

211067