

SIPMOS® Small Signal Transistors

Type	$V_{DS(max)}$ V	$R_{DS(on) max}$ Ω	$I_{D(max)}$ mA	$V_{GS(th)}$ V	Package	Page
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N Channel Depletion Types – Leded

BSS 149	200	3.5	350	– 1.8 ... – 0.7	TO-92	468
BSS 129	240	20	150	– 1.8 ... – 0.7	TO-92	429
BSS 229	250	100	70	– 1.8 ... – 0.7	TO-92	489
BSS 135	600	60	80	– 1.8 ... – 0.7	TO-92	442

N Channel Depletion Types – SMD

BSP 149	200	3.5	480	– 1.8 ... – 0.7	SOT-223	211
BSP 129	240	20	200	– 1.8 ... – 0.7	SOT-223	197
BSS 139	250	100	40	– 1.8 ... – 0.7	SOT-23	455
BSP 135	600	60	100	– 1.8 ... – 0.7	SOT-223	204
BSS 159	50	8	160	– 3.0 ... – 1.5	SOT-23	474
BSS 169	100	12	120	– 3.0 ... – 1.5	SOT-23	478

P Channel Enhancement Types – Leded

BSS 110	– 50	10	– 170	– 0.8 ... – 2.0	TO-92	394
BSS 92	– 240	20	– 150	– 0.8 ... – 2.0	TO-92	366

P Channel Enhancement Types – SMD

BSP 315	– 50	0.8	– 1100	– 0.8 ... – 2.0	SOT-223	274
BSS 84	– 50	10	– 130	– 0.8 ... – 2.0	SOT-23	338
BSS 284	– 50	10	– 130	– 0.8 ... – 1.6	SOT-23	495
BSP 171	– 60	0.35	– 1700	– 0.8 ... – 2.0	SOT-223	218
SP 0610T	– 60	10	– 130	– 1.0 ... – 2.0	SOT-23	537
BSP 316	– 100	2.2	– 650	– 0.8 ... – 2.0	SOT-223	282
BSP 317	– 200	6	– 370	– 0.8 ... – 2.0	SOT-223	290
BSP 92	– 240	20	– 200	– 0.8 ... – 2.0	SOT-223	173
BSS 192	– 240	20	– 150	– 0.8 ... – 2.0	SOT-89	482

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N Channel Enhancement Types – Leded

BSS 98	50	3.5	300	0.8 ... 1.6	TO-92	373
BSS 295	50	0.3	1400	0.8 ... 2.0	TO-92	502
BS 170	60	5	300	0.8 ... 2.0	TO-92	142
SN 7000	60	5	250	0.8 ... 2.0	TO-92	523
BSS 100	100	6	220	0.8 ... 2.0	TO-92	380
BSS 296	100	0.8	800	0.8 ... 2.0	TO-92	509
BS 107	200	26	130	0.8 ... 2.0	TO-92	135
BSS 297	200	2	480	0.8 ... 2.0	TO-92	516
BSS 88	240	8	250	0.6 ... 1.2	TO-92	352
BSS 89	240	6	290	0.8 ... 2.0	TO-92	359
BSS 101	240	16	130	0.8 ... 2.0	TO-92	388
BSS 124	400	28	120	1.5 ... 2.5	TO-92	415
BSS 125	600	45	100	1.5 ... 2.5	TO-92	422

N Channel Enhancement Mode – SMD

BSP 319	50	0.07	3800	1.2 ... 2.0	SOT-223	306
BSP 17	50	0.1	3200	2.1 ... 4.0	SOT-223	149
BSP 295	50	0.3	1800	0.8 ... 2.0	SOT-223	226
BSS 138	50	3.5	220	0.8 ... 1.6	SOT-23	448
BSP 318	60	0.15	2600	1.5 ... 2.5	SOT-223	298
SN 7002	60	5	190	0.8 ... 2.0	SOT-23	530
BSS 145	65	3.5	220	1.4 ... 2.3	SOT-23	461
BSP 373	100	0.3	1700	2.1 ... 4.0	SOT-223	330
BSP 372	100	0.31	1700	0.8 ... 2.0	SOT-223	322
BSP 296	100	0.8	1000	0.8 ... 2.0	SOT-223	234
BSP 123	100	6.0	380	0.8 ... 2.0	SOT-223	181
BSS 119	100	6	170	1.6 ... 2.6	SOT-23	401
BSS 123	100	6	170	0.8 ... 2.0	SOT-23	408

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N Channel Enhancement Mode – SMD (cont'd)

BSP 297	200	2	650	0.8 ... 2.0	SOT-223	242
BSP 88	240	8	320	0.6 ... 1.2	SOT-223	157
BSP 89	240	6	360	0.8 ... 2.0	SOT-223	165
BSS 87	240	6	290	0.8 ... 2.0	SOT-89	345
BSS 131	240	16	100	0.8 ... 2.0	SOT-23	435
BSP 298	400	3	500	2.1 ... 4.0	SOT-223	250
BSP 324	400	25	170	1.5 ... 2.5	SOT-223	314
BSP 299	500	4	400	2.1 ... 4.0	SOT-223	258
BSP 125	600	45	120	1.5 ... 2.5	SOT-223	189
BSP 300	800	20	0.19	2.1 ... 4.0	SOT-223	266

SITAC® AC-Switches

Type	$V_{DRM max.}$ V	$I_{TRMS max.}$ mA	$I_H max.$ mA	dv/dt V/ μ s	$I_{FT max.}$ mA	Package	Page
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Without Zero-Crossing Switch

BRT 11 H	400	300	0.5	10 000	2	DIP-6	547
BRT 11 M	400	300	0.5	10 000	3	DIP-6	547
BRT 12 H	600	300	0.5	10 000	2	DIP-6	547
BRT 12 M	600	300	0.5	10 000	3	DIP-6	547
BRT 13 H	800	300	0.5	10 000	2	DIP-6	547
BRT 13 M	800	300	0.5	10 000	3	DIP-6	547

With Zero-Crossing Switch

BRT 21 H	400	300	0.5	10 000	2	DIP-6	553
BRT 22 H	600	300	0.5	10 000	2	DIP-6	553
BRT 22 M	600	300	0.5	10 000	3	DIP-6	553
BRT 23 H	800	300	0.5	10 000	2	DIP-6	553
BRT 23 M	800	300	0.5	10 000	3	DIP-6	553