

RADIO AND AUDIO

MEMORIES CMOS EEPROMs

Type	Description	Package
ST24C02 TS59C11 TS93C46	256 × 8, clock frequency 100 kHz, I2C compatible 128 × 8, clock frequency 250 kHz, consumption 3/0.1 mA 64 × 16, clock frequency 250 kHz, consumption 3/0.1 mA	DIP8, SO8 DIP8 DIP8

NMOS EEPROMs

Type	Description	Package
M9306 M9346	16 × 16, clock frequency 250 kHz 64 × 16, clock frequency 250 kHz	DIP8, SO8 DIP8, SO8

CMOS OTP ROMs - NMOS OTP ROMs

See chapter «DATA PROCESSING»

LAMP BALLAST

Our Multiepitaxial Mesa devices offer cost effective devices for fluorescent electronic lamp ballasts. The FASTSWITCH technology offers easier driving and faster switching. For use in applications such as transportation or emergency lighting running from low voltage DC the power transistors for DC-DC converters will be suitable.

BIPOLAR POWER TRANSISTORS

I _C (A)	V _{CB0} (V)	V _{CEO} (V)	P _{tot} (W)	Package	Type	V _{CE(sat)} @ (V)	I _C (A)	I _B (mA)	t _s (μs)	t _f (μs)
4	700	400	75	TO 220	MJE 13005	1	4	1000	4	0.9
5	850	400	70	TO 220	SGSF 321 (1)	1.5	3.5	700	2.5	0.3
5	850	400	70	TO 220	BUV 46	1.5	2.5	300	3	0.8
7	400	200	60	TO 220	BU 406	1	5	500	0.9 §	0.3 §
8	700	400	80	TO 220	MJE 13007	1.5	5	1000	3	0.7
10	850	400	85	TO 220	SGSF 341	1.5	6	1200	2.5	0.3

(1) FASTWITCH technology.

§ : Typical value.

POWER BIPOLAR

700 / 1000 V VCBO RANGE

I_C	V_{CBO}	V_{CEO}	P_{tot}	Package	Type NPN	$V_{CE(sat)}$ @	I_C	I_B	t_r $t_d + t_r^*$	t_{sl} t_s^*	t_{fl} t_f^*
(A)	(V)	(V)	(W)			max (V)	(A)	(A)	(1) max (μs)	max (μs)	max (μs)
2	800	400	50	TO 220	BUX 84	1	1	0.2	0.5*	3.5* (1)	1.4* (1)
2	1000	450	50	TO 220	BUX 85	1	1	0.2	0.5*	3.5* (1)	1.4* (1)
4	700	400	75	TO 220	MJE 13005	1	4	1	0.7	3.5* (1)	0.9* (1)
4	850	400	75	TO 220	MJE 13005 A	1	4	1	0.7	3.5* (1)	0.9* (1)
4	850	400	70	TO 220	BUD 46 (2)	1.6	2.5	0.12	—	2.8	0.4
4	1000	450	70	TO 220	BUD 46 A (2)	1.6	2.5	0.12	—	2.8	0.4
5	850	400	70	TO 220	BUV 46	1.5	2.5	0.5	—	3	0.8
5	850	400	30	ISOWATT 220	BUV 46 FI	1.5	2.5	0.5	—	3	0.8
5	850	400	83	TO 220	BUT 11	1.5	3	0.6	—	4	0.8
5	850	400	35	ISOWATT 220	BUT 11 FI	1.5	3	0.6	—	4	0.8
5	1000	450	70	TO 220	BUV 46 A	1.5	2	0.4	—	3	0.8
5	1000	450	30	ISOWATT 220	BUV 46 AFI	1.5	2	0.4	—	3	0.8
5	1000	450	83	TO 220	BUT 11 A	1.5	2.5	0.5	—	4	0.8
5	1000	450	35	ISOWATT 220	BUT 11 AFI	1.5	2.5	0.5	—	4	0.8
6	800	375	75	TO 3	BU 326	3	4	1.25	0.5	3.5* (1)	0.5* (1)
6	900	400	75	TO 3	BU 326 A	3	4	1.25	0.5	3.5* (1)	0.5* (1)
7	1000	450	70	TO 220	BUV 56 A	1.2	4	0.8	—	3 * (1)	0.4* (1)
8	700	400	80	TO 220	MJE 13007	1.5	5	1	1	3 * (1)	0.7* (1)
8	850	400	80	TO 220	MJE 13007 A	1.5	5	1	1	3 * (1)	0.7* (1)
8	850	400	100	TO 220	BUD 47 (2)	1.6	5	0.25	—	3.2	0.4
9	850	400	125	TO 3	BUX 47	1.5	6	1.2	1	4 *	0.4*
9	850	450	50	ISOWATT 218	BUV 47 FI	1.5	5	1	1 *	4 *	0.4*
9	850	450	75	TOP 3I	BUV 47 I	1.5	5	1	1 *	4 *	0.4*
9	850	450	120	SOT 93	BUV 47	1.5	5	1	1 *	4 *	0.4*
9	1000	450	50	ISOWATT 218	BUV 47 AFI	1.5	5	1	1	4	0.4
9	1000	450	125	TO 3	BUX 47 A	1.5	5	1	1	4 *	0.4*
9	1000	450	75	TOP 3I	BUV 47 AI	1.5	5	1	1 *	4 *	0.4*
9	1000	450	120	SOT 93	BUV 47 A	1.5	5	1	1 *	4 *	0.4*
12	700	400	100	TO 220	MJE 13009	1.5	8	1.6	1	3 * (1)	0.7* (1)
12	850	400	100	TO 220	MJE 13009 A	1.5	8	1.6	1	3 * (1)	0.7* (1)
12	850	450	100	TO 220	BUV 66 A	1.2	6.5	1.3	—	3	0.4
15	850	400	50	ISOWATT 218	BUV 48 FI	1.5	10	2	1	5	0.4
15	850	400	125	SOT 3	BUV 48	1.5	10	2	1	5	0.4
15	850	400	175	TO 3	BUX 48	1.5	10	2	1	5	0.4
15	850	450	100	TO 220	BUV 66	1.2	8	1.6	—	3	0.4
15	850	450	100	TOP 3I	BUV 48 I	1.5	10	2	1	5 *	0.4*
15	1000	450	50	ISOWATT 218	BUV 48 AFI	1.5	8	1.6	1	5	0.4
15	1000	450	100	TOP 3I	BUV 48 AI	1.5	8	1.6	1	5	0.4
15	1000	450	125	SOT 93	BUV 48 A	1.5	10	2	1	5	0.4
15	1000	450	175	TOP 3	BUX 48 A	1.5	10	2	1	5	0.4
16	850	400	90	TOP 3I	BUD 48 I (2)	1.6	10	0.5	—	3.6	0.4
16	850	400	150	SOT 93	BUD 48 (2)	1.6	10	0.5	—	3.6	0.4
16	1000	450	90	TOP 3I	BUD 48 AI (2)	1.6	10	0.5	—	3.6	0.4
16	1000	450	150	SOT 93	BUD 48 A (2)	1.6	7.5	0.5	—	3.6	0.4
24	1000	450	115	TOP 3 I	BUX 98 API	1.2	16	3.2	—	4.5	0.4
24	1000	450	200	SOT 93	BUX 98 AP	1.2	16	3.2	—	4.5	0.4
30	1000	450	250	TO 3	BUX 98 A	1.5	16	3.2	1	4.5	0.4
32	850	400	110	TOP 3 I	BUD 98 I (2)	1.6	20	1	—	3.8	0.4
32	850	400	250	SOT 93	BUD 98 (2)	1.6	20	1	—	3.8	0.4
35	1000	450	300	TO 3	BUX 348 A	1.2	24	4.8	—	4.5	0.4

For switching times, $T_j = 100^\circ\text{C}$, unless otherwise specified.(1) $T_j = 25^\circ\text{C}$

(2) Darlington.

1200 V VCBO RANGE

I_C	V_{CBO}	V_{CEO}	P_{tot}	Package	Type	$V_{CE(sat)}$ @	I_C	I_B	t_r $t_d + t_r^*$	t_{sl} t_s^*	t_{fl} t_f^*
(A)	(V)	(V)	(W)			max (V)	(A)	(A)	(1) max (μs)	max (μs)	max (μs)
15	1200	700	50	ISOWATT 218	BUV 48 CF1	1.5	6	1.5	1	6	0.6
15	1200	700	100	TOP 3 I	BUV 48 CI	1.5	6	1.5	1	6	0.6
15	1200	700	120	SOT 93	BUV 48 C	1.5	6	1.5	1	6	0.6
15	1200	700	175	TO 3	BUX 48 C	1.5	6	1.5	1	6	0.6
30	1200	700	250	TO 3	BUX 98 C	1.5	12	3	1	6	0.6

For switching times, $T_j = 100^\circ\text{C}$ unless otherwise specified.(1) $T_j = 25^\circ\text{C}$.