

Low Power Bipolar Transistors – SMD
(P_{tot} to 0.65W) — continued

SOT-23 General Purpose, PNP



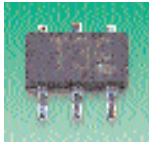
V _{CEO} V	I _C mA	f _T typ. MHz	h _{FE} (h _{FE} *) @	I _C mA	F max. dB	P _{tot} mW	Device Marking	Mfrs. Mfrs. List No.
30	100	—	420	2	10	350	3L FCH	BC858C
30	1200	220	20000	100	—	350	FD FCH	BCV26
32	100	—	215	10	10	250	C2 FCH	BCW30
40	200	250	100	10	4	350	2A FCH	MMBT3906
45	100	—	420	2	3	250	4G FCH	BC860C
45	500	—	100	100	—	300	T1 ON	BCX17LT1
45	500	100	160	100	—	250	5B ON	BC807-25
45	500	100	250	100	—	250	5C FCH	BC807-40
45	500	100	420	2	10	350	3G FCH	BC857C
60	800	200	100	150	—	350	2F FCH	MMBT2907A
65	100	150	220	2	10	250	3Bs INF	BC856B

SD259

Mfrs. List No.	Order Code	Price Each			
		10+	100+	1K+	3K+
BC807-25	933-934				
BC807-40	934-185				
BC856B	743-112				
BC857C	934-239				
BC858C	934-252				
BC860C	934-227 †				
BCV26	934-240				
BCW30	934-264				
BCX17LT1	934-010				
MMBT2907A	743-010				
MMBT3906	742-983				

† Available until stocks are exhausted

SuperSOT-4 Low Saturation Switching Transistors



- Very low conduction losses
- Ideal for battery operated applications
- High current
- High gain
- High power dissipation

V _{CEO} max. V	V _{cb0} max. V	I _C A	I _C (pk.) A	h _{FE} min. @	I _C mA	V _{ce} (sat.) max. mV @	I _C A	P _{tot} W	Device Marking	Mfrs. List No.
NPN										
15	40	5	15	300	1	8	0.1	1.1	N15D	ZXT13N15DE6
20	50	4.5	15	300	1	8	0.1	1.1	N20D	ZXT13N20DE6
50	100	5	10	300	1	12	0.1	1.1	N50D	ZXT13N50DE6
PNP										
12	20	4	15	300	1	10	0.1	1.1	P12D	ZXT13P12DE6
20	25	4	10	300	1	15	0.1	1.1	P20D	ZXT13P20DE6
40	40	3	10	300	1	25	0.1	1.1	P40D	ZXT13P40DE6

SD494

Mfrs. List No.	Order Code	Price Each			
		5+	25+	100+	250+
ZXT13N15DE6	334-6869				
ZXT13N20DE6	334-6870				
ZXT13N50DE6	334-6882				
ZXT13P12DE6	334-6894				
ZXT13P20DE6	334-6900				
ZXT13P40DE6	334-6912				

Switching Transistors

Philips Semiconductors



SOT-23



SOT-89



V _{CEO} max. V	I _C max. A	P _{tot} mW	h _{FE} min. @	I _C mA	t _{(on)/t_(off)} ns	V _{ce} (sat.) max. V	Package	Device Marking	Mfrs. List No.
NPN									
12	0.1	250	40	10	12/18	0.2	SOT-23	B2p	BSV52
15	0.2	250	40	10	10/30	0.25	SOT-23	p1J	PMBT2369
40	0.1	250	100	10	65/240	0.2	SOT-23	p1A	PMBT3904
40	0.2	300	100	10	70/250	0.2	SOT-23	U92p	BSR17A
40	0.6	250	40	500	35/250	1.0	SOT-23	p1P	PMBT2222A
40	0.8	250	100	150	35/285	1.0	SOT-23	U8p	BSR14
PNP									
40	0.1	250	100	10	65/300	0.2	SOT-23	p2A	PMBT3906
40	0.2	300	100	10	70/300	0.25	SOT-23	T92p	BSR18A
40	0.6	250	30	500	40/365	1.6	SOT-23	p2B	PMBT2907
40	0.6	1200	100	150	35/250	1.0	SOT-89	p1P	PXT2222A
60	0.6	250	50	500	40/365	0.4	SOT-23	p2F	PMBT2907A
60	0.6	250	100	150	45/100	1.6	SOT-23	T8p	BSR16
60	0.6	1250	100	150	40/365	1.6	SOT-89	p2F	PXT2907A

SD91

Order Multiple=5

Mfrs. List No.	Order Code	Price Each			
		5+	100+	1K+	5K+
BSR14	506-333				
BSR16	506-345				
BSR17A	549-381				
BSR18A	549-393				
BSV52	506-357				
Order Multiple=10					
PMBT2222A	302-3643	10+	100+	1K+	3K+
PMBT2369	305-1316				
PMBT2907	302-3655				
PMBT2907A	305-1328				
PMBT3904	305-1330				
PMBT3906	302-3667				
Order Multiple=5					
PXT2222A	305-1377	5+	100+	1K+	3K+
PXT2907A	302-3679				

SOT-23 Switching

Supplied on 8mm tape.



V _{CEO} max V	I _C max A	P _{tot} mW	h _{FE} min. @	I _C mA	t _{on} /t _{off} max. ns	V _{ce} (sat) max V	Device Marking	Mfrs. Mfrs. List No.	
NPN									
15	0.2	225	40	10	12/18	0.20	1S	FCH	MMBT2369A
15	3.0	625	300	200	120*/160*	0.15	617	ZET	FMMT617
20	2.5	625	300	200	170/400	0.20	618	ZET	FMMT618
40	0.2	300	100	10	70/250	0.20	U92	FCH	BSR17A
50	2.0	625	300	200	170/750	0.22	619	ZET	FMMT619
80	0.5	225	100	100	—	0.25	1GM	ON	MMBTA06LT1
PNP									
12	2.5	625	300	100	70*/130*	0.22	717	ZET	FMMT717
15	0.2	225	50	10	15/20	0.18	3R	FCH	MMBT5771
20	1.5	625	300	100	40*/670*	0.22	718	ZET	FMMT718
30	1.0	310	100	500	—	—	G3	ON	MMBT589LT1
40	0.2	300	100	10	70/300	0.25	T92	FCH	BSR18A
40	1.5	625	300	100	40*/435*	0.33	720	ZET	FMMT720
80	0.5	225	100	100	—	0.25	2GM	ON	MMBTA56LT1

*typ.

SD175

Order Multiple=5

Mfrs. List No.	Order Code	Price Each			
		5+	100+	1K+	5K+
BSR17A	740-962				
BSR18A	740-974				
BSV52	506-357				
FMMT617	.549-400				
FMMT618	.549-411				
FMMT619	.549-423				
FMMT717	.549-435				
FMMT718	.549-447				
FMMT720	.549-459				
MMBT589LT1	300-5513				
MMBT2369A	743-033				
MMBT5771	932-978				
MMBTA06LT1	247-376				
MMBTA56LT1	247-388				

SOT-23 High Voltage

Philips Semiconductors



V _{CEO} max. V	I _C max. mA	f _T typ. (min.*) MHz	h _{FE} min. @	I _C mA	P _{tot} mW	Device Marking	Mfrs. List No.
140	600	100	60	10	250	p1F	PMBT5550
160	300	100*	80	10	250	pG1	PMBT5551
250	50	60*	50	25	250	1Wt	BF822
300	100	60	50	25	250	1Vt/1Wp	BF820
300	200	50	40	10	250	p1D/p2D	PMBTA42

Order Multiple=5

Mfrs. List No.	Order Code	Price Each		
		5+	100+	3K+
BF820	302-3552			
BF821	302-3564			
BF822	316-2928			
PMBT5550	302-3576			
PMBT5551	305-1341			
PMBTA42	302-3588			
PMBTA92	302-3590			

SD3