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USA / European specification models types [Surface mounting type]

● UMT3 / NPN type

General purpose small signal amplifiers

UMT3 package

Product name	BV _{CEO}	BV _{CEO}	BV _{CEO}	I _C	I _{CEO}	@V _{CE}	h _{FE}		@I _C	@V _{CE}	V _{CE} (sat)		V _{BE} (sat)		C _{ob}	f _r	toff	MARKING	DIE NO.
	Min. (V)	Min. (V)	Min. (V)	Max. (mA)	Max. (μV)		Min.	Max.			Max. (V)	&	Max. (V)	Max. (V)					
BC848BW	30	30	5	100	0.1	30	200	450	2	5	0.6	—	100	3	200	—	—	G1K	C22

● UMT3 / PNP type

General purpose small signal amplifiers

UMT3 package

Product name	BV _{CEO}	BV _{CEO}	BV _{CEO}	I _C	I _{CEO}	@V _{CE}	h _{FE}		@I _C	@V _{CE}	V _{CE} (sat)		V _{BE} (sat)		C _{ob}	f _r	toff	MARKING	DIE NO.
	Min. (V)	Min. (V)	Min. (V)	Max. (mA)	Max. (μV)		Min.	Max.			Max. (V)	&	Max. (V)	Max. (V)					
BC858BW	30	30	5	100	0.1	30	210	480	2	5	0.65	—	100	4.5	250	—	—	G3K	A32

*The minus sign (—) on PNP values has been omitted.

General purpose amplification and switching

Product name	BV _{CEO}	BV _{CEO}	BV _{CEO}	I _C	I _{CEO}	@V _{CE}	h _{FE}		@I _C	@V _{CE}	V _{CE} (sat)		V _{BE} (sat)		C _{ob}	f _r	toff	MARKING	DIE NO.
	Min. (V)	Min. (V)	Min. (V)	Max. (mA)	Max. (μV)		Min.	Max.			Max. (V)	&	Max. (V)	Max. (V)					
UMT2907A	60	60	5	600	100	50	75		0.1	10	0.4	1.3	150	8	200	50	180	R2F	A31
							100		1	10									
							100		10	10									
							100	300	150	10									
							50		500	10									
UMT3906	40	40	5	200	50	30	60		0.1	1	0.25	0.85	10	4.5	250	10	300	R2A	A38
							80		1	1									
							100	300	10	1									
							60		50	1									
							30		100	1									
UMT4403	40	40	5	600	100	35	30		0.1	1	0.4	0.95	150	8.5	200	20	225	R2T	A31
							60		1	1									
							100		10	1									
							100	300	150	2									
							20		500	2									

*The minus sign (—) on PNP values has been omitted.

General purpose amplification and switching

Product name	BV _{CEO}	BV _{CEO}	BV _{CEO}	I _C	I _{CEO}	@V _{CE}	h _{FE}		@I _C	@V _{CE}	V _{CE} (sat)		V _{BE} (sat)		C _{ob}	f _r	toff	MARKING	DIE NO.
	Min. (V)	Min. (V)	Min. (V)	Max. (mA)	Max. (μV)		Min.	Max.			Max. (V)	&	Max. (V)	Max. (V)					
UMT2222A	75	40	6	600	100	60	35		0.1	10	0.3	1.2	150	8	250	20	285	R1P	C31
							50		1	10									
							75		10	10									
							100	300	150	10									
							50		150	1									
							30		500	10									
UMT3904	60	40	6	200	50	30	40		0.1	1	0.2	0.85	10	4	300	10	250	R1A	C37
							70		1	1									
							100	300	10	1									
							60		50	1									
							30		100	1									
UMT4401	60	40	6	600	100	35	20		0.1	1	0.4	0.95	150	6.5	250	20	225	R2X	C31
							40		1	1									
							80		10	1									
							100	300	150	1									
							40		500	2									

● SST3 - SMT3 / PNP type (cont.)



General purpose amplification and switching

SST3 package

SMT3 package

Product name		BV _{CB0}	BV _{CE0}	BV _{EB0}	I _{CB0}	@V _{CB}	h _{FE}		V _{CE} (sat)			C _{ob}	f _r	f _β		I _c	MARKING	DIE NO.
Package		Min. (V)	Min. (V)	Min. (V)	Max. (nA)		Min.	Max.	Max.	Max.	@I _c			Max.	Max.			
SST3	SMT3	(V)	(V)	(V)	(nA)	(V)	Min.	Max.	(V)	(V)	(mA)	(pF)	(MHz)	(mA)	(ns)	(mA)		
SST2222A	MMST2222A	75	40	6	100	60	35	10	0.3	1.2	150	8	250	20	285	600	R1P	C31
							50	1										
							75	10										
							100	10										
							100	300										
50	150																	
30	500																	
SST3904	MMST3904	60	40	6	50 (I _{Cex})	30	40	1	0.2	0.85	10	4	300	10	250	200	R1A	C37
							70	1										
							100	1										
							60	10										
							30	100										
—	MMST4124	30	25	5	50	20	120	360	2.0	1	50	4	300	10	—	200	RZC	C37
SST4401	MMST4401	60	40	6	100	35	20	1	0.4	0.95	150	6.5	250	20	225	600	R2X	C31
							40	1										
							80	10										
							100	300										
							40	500										

Medium power amplification

Product name		BV _{CB0}	BV _{CE0}	BV _{EB0}	I _{CB0}	@V _{CB}	h _{FE}		V _{CE} (sat)			C _{ob}	f _r	f _β		I _c	MARKING	DIE NO.
Package		Min. (V)	Min. (V)	Min. (V)	Max. (nA)		Min.	Max.	Max.	Max.	@I _c			Max.	Max.			
SST3	SMT3	(V)	(V)	(V)	(nA)	(V)	Min.	Max.	(V)	(V)	(mA)	(pF)	(MHz)	(mA)	(ns)	(mA)		
SSTA05	—	60	60	4	100	60	100	100	10	1	0.25	1.2	100	10	—	500	R1H	D16
SSTA06	MMSTA06	80	80	4	100	80	100	100	10	1	0.25	1.2	100	10	—	500	R1G	D16

Darlington pair type

Product name		BV _{CB0}	BV _{CE0}	BV _{EB0}	I _{CB0}	@V _{CB}	h _{FE}		V _{CE} (sat)			C _{ob}	f _r	NF	I _c	MARKING	DIE NO.	
Package		Min. (V)	Min. (V)	Min. (V)	Max. (nA)		Min.	Max.	Max.	Max.	@I _c							Max.
SST3	SMT3	(V)	(V)	(V)	(nA)	(V)	Min.	Max.	(V)	(V)	(mA)	(pF)	(MHz)	(mA)				
SST6427	—	40	40	12	50	30	10	100	10	5	1.2	50	—	—	10	500	R1J	D25
SSTA13	MMSTA13	(V _{CEs}) 30		10	100	30	5	10	5	1.5	2	100	10	125	10	500	R1M	D25
							10	100	5									
SSTA14	MMSTA14	(V _{CEs}) 30		10	100	30	10	10	5	1.5		100	10	125	10	500	R1N	D25
							20	100	5									
SSTA28	MMSTA28	(V _{CEs}) 80		12	100	60	10	10	5	1.5		100	8	125	10	500	RAT	D69
							10	100	5									

High frequency applications

Product name		BV _{CB0}	BV _{CE0}	BV _{EB0}	I _{CB0}	@V _{CB}	h _{FE}		V _{CE} (sat)			C _{ob}	f _r	NF	I _c	MARKING	DIE NO.			
Package		Min. (V)	Min. (V)	Min. (V)	Max. (nA)		Min.	Max.	Max.	Max.	@I _c							Max.	Max.	(dB)
SST3	SMT3	(V)	(V)	(V)	(nA)	(V)	Min.	Max.	(V)	(V)	(mA)	(pF)	(MHz)	(mA)						
SST8245	—	30	20	3	100 (I _{CES})	18	60	150	2.5	4	0.4	1	10	1.2	600	2.5	50	R3B	C33	
—	MMST918	30	15	3	100	15	20		3	1	0.4	1	10	1.7	600	4	6	50	RVX	C33

● SST3 - SMT3 / PNP type



General purpose amplification and switching (cont.)

SST3 package

SMT3 package

Product name		BV _{CEO}	BV _{CEO}	BV _{EB0}	I _{CEO}	h _{FE}		V _{CE} (sat)		V _{BE} (sat)	Cob	f _r	t _{off}	I _C	MARKING	DIE NO.				
Package		Min.	Min.	Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	Min.	Max.	Max.						
SST3	SMT3	(V)	(V)	(V)	(nA)	@V _{CB}	@I _C	@V _{CE}	(V)	(V)	(pF)	(MHz)	(ns)	(mA)						
SST3906	MMST3906	40	40	5	50 (I _{CE5})	30	60	0.1	1	0.25	0.85	10	4.5	250	10	300	200	R2A	A38	
							80	1	1											
							100	10	1											
							60	50	1											
							30	100	1											
-	MMST4126	25	25	4	50	20	120	360	2	1	0.4	0.95	50	4.5	250	10	200	RVZ	A38	
							60	50	1											
SST4403	MMST4403	40	40	5	100	35	30	0.1	1	0.4	0.95	150	8.5	200	20	255	600	R2T	A31	
							60	1	1											
							100	10	1											
							100	300	150											2
							20	500	2											

•The minus sign (-) on PNP values has been omitted.

Medium power amplification

Product name		BV _{CEO}	BV _{CEO}	BV _{EB0}	I _{CEO}	h _{FE}		V _{CE} (sat)		V _{BE} (sat)	Cob	f _r	t _{off}	I _C	MARKING	DIE NO.			
Package		Min.	Min.	Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	Min.	Max.	Max.					
SST3	SMT3	(V)	(V)	(V)	(nA)	@V _{CB}	@I _C	@V _{CE}	(V)	(V)	(pF)	(MHz)	(ns)	(mA)					
SSTA56	MMSTA56	80	80	4	100	80	100	10	1	0.25	1.2	100		50	100		500	R2G	B93
							100	100	1										

•The minus sign (-) on PNP values has been omitted.

Darlington pair type

Product name		BV _{CEO}	BV _{CEO}	BV _{EB0}	I _{CEO}	h _{FE}		V _{CE} (sat)		V _{BE} (sat)	Cob	f _r	NF	I _C	MARKING	DIE NO.			
Package		Min.	Min.	Min.	Max.	Min.	Max.	Max.	Max.	Max.	Max.	Min.	Max.	Max.					
SST3	SMT3	(V)	(V)	(V)	(nA)	@V _{CB}	@I _C	@V _{CE}	(V)	(V)	(pF)	(MHz)	(dB)	(mA)					
-	MMSTA64	30	30 (V _{CE5})	10	100	30	10k	10	5	1.5		100	7	125	10	3	300	R2V	B25
							20k	100	5										

•The minus sign (-) on PNP values has been omitted.

● MPT3 / NPN type



MPT3 package

Application	Product name	V _{CEO}	I _C	P _C	f _r	Cob	h _{FE}	MARKING	DIE NO.
		(V)	(A)	(W)★	(MHz)	(pF)			
Driver	BCX56	80	1	1	100	20	40~250	DF	D54

★ On 14×18×0.7mm ceramic board.

● MPT3 / PNP type



MPT3 package

Application	Product name	V _{CEO}	I _C	P _C	f _r	Cob	h _{FE}	MARKING	DIE NO.
		(V)	(A)	(W)★	(MHz)	(pF)			
Driver	BCX53	80	1	1	100	20	40~250	BE	B54

•The minus sign (-) on PNP values has been omitted.

★ On 14×18×0.7mm ceramic board.