

ON Semiconductor™



Transistors (Cont.)



Fig.	VCEO (V)	VCB (V)	IC (A)	HFE (Min.)	Pd (TA @ 25°C) (W)	Digi-Key Part No.	Pricing			Tape and Reel§		
							1	10	100	Qty.	Pricing	
5	60	80	3	12	12.5	MJE171GOS-ND	.59	4.92	36.93	—	—	
	80	80	1	10	30	2N4920GOS-ND	.61	5.31	41.00	—	—	
	80	80	4	500	1.5	2N6036GOS-ND	.65	5.75	44.32	—	—	
	80	100	3	12	1.5	MJE172GOS-ND	.59	4.92	36.93	—	—	
	80	100	1.5	25	1.25	BD140GOS-ND	.51	4.49	34.64	—	—	
	100	100	4	750	4.0	BD682GOS-ND	.57	4.99	38.52	—	—	
	100	100	4	40	1.5	MJE253GOS-ND	.55	4.85	37.41	—	—	
	300	—	0.5	30	20	MJE350GOS-ND	.59	4.92	36.93	—	—	
	<b>TO-247 — RoHS Compliant</b>											
	6	250	400	16	8	—	MJW21193GOS-ND	3.59	32.01	262.49	—	—
<b>TO-264/TO-3PBL — RoHS Compliant</b>												
7	200	200	15	60	200	MJL1302AGOS-ND	3.30	29.50	241.88	—	—	
	250	400	16	25	200	MJL21195GOS-ND	3.93	35.11	287.90	—	—	
	250	400	16	25	200	MJL21193GOS-ND	4.16	37.17	304.83	—	—	
	350	350	15	80	230	MJL4302AGOS-ND	5.16	46.47	382.07	—	—	
<b>SOT-23 — RoHS Compliant</b>												
8	20	20	2	250	.540	NSS20200LT1GOSCT-ND	.45	3.63	27.26	3,000	128.05/M	
	30	30	0.5	10K	.225	MMBTAG64LT1GOSCT-ND	.36	2.41	11.35	3,000	33.05/M	
	30	30	0.1	420	.225	BC858CLT1GOSCT-ND	.33	2.16	9.37	3,000	25.30/M	
	30	30	0.1	220	.225	BC858BLT1GOSCT-ND	.32	2.09	9.10	3,000	24.79/M	
	30	30	0.5	5K	.225	MMBTAG63LT1GOSCT-ND	.36	2.41	11.35	3,000	33.05/M	
	40	40	0.2	80	.225	MMBT3906LT1GOSCT-ND	.28	1.85	8.03	3,000	21.48/M	
	40	40	0.6	60	.225	MMBT4403LT1GOSCT-ND	.29	1.89	8.21	3,000	22.71/M	
	45	50	0.5	40	.225	BC807-16LT1GOSCT-ND	.34	2.24	9.72	3,000	26.44/M	
	45	50	0.1	220	.225	BC857BLT1GOSCT-ND	.32	2.09	9.10	3,000	24.58/M	
	45	50	0.5	160	.225	BC807-25LT1GOSCT-ND	.32	2.13	9.28	3,000	25.05/M	
	45	50	0.5	250	.225	BC807-40LT1GOSCT-ND	.32	2.13	9.28	3,000	25.05/M	
	45	50	0.1	420	.225	BC857CLT1GOSCT-ND	.32	2.09	9.10	3,000	24.79/M	
	50	50	0.05	250	.225	MMBT5087LT1GOSCT-ND	.36	2.47	11.63	3,000	33.87/M	
	60	60	0.6	100	.225	MMBT2907ALT1GOSCT-ND	.29	1.89	8.21	3,000	22.31/M	
	60	60	0.5	100	.225	MMBTAS55LT1GOSCT-ND	.36	2.41	11.35	3,000	33.05/M	
	60	80	2.0	100	.460	NSS60200LT1GOSCT-ND	.45	3.63	27.26	3,000	128.05/M	
	65	80	0.1	125	.225	BC856ALT1GOSCT-ND	.31	2.07	9.01	3,000	24.34/M	
	65	80	0.1	220	.225	BC856BLT1GOSCT-ND	.32	2.09	9.10	3,000	24.58/M	
	80	80	0.5	100	.225	MMBTAS66LT1GOSCT-ND	.36	2.41	11.35	3,000	33.05/M	
	150	160	0.5	50	.225	MMBT5401LT1GOSCT-ND	.36	2.41	11.35	3,000	33.05/M	
300	300	0.5	25	.225	MMBTAS92LT1GOSCT-ND	.36	2.47	11.63	3,000	33.87/M		
350	350	0.5	15	.225	MMBT6520LT1GOSCT-ND	.45	3.16	18.95	3,000	62.79/M		
<b>SOT-223 — RoHS Compliant</b>												
9	20	25	1	50	1.5	BCP69T1GOSCT-ND	.39	3.04	20.81	1,000	95.83	
	40	40	3	100	2.0	NJ174030PT1GOSCT-ND	.45	3.51	24.01	1,000	110.70	
	40	40	3	100	2.0	NJ174030PT3GOSCT-ND	.45	3.51	24.01	4,000	101.61/M	
	60	60	0.6	100	1.5	PZT2907AT1GOSCT-ND	.49	3.47	23.11	1,000	92.52	
	60	100	6	120	2.0	NSS60600MZ4T1GOSCT-ND	.55	4.36	32.71	1,000	168.52	
	60	80	2	75	0.8	PZT751T1GOSCT-ND	.37	2.92	20.01	1,000	92.52	
	80	100	1.5	40	1.5	BCP53T1GOSCT-ND	.45	3.23	21.54	1,000	86.18	
	80	100	1.5	25	1.5	BCP53-16T1GOSCT-ND	.45	3.23	21.54	1,000	85.91	
	100	140	2	50	1.5	NSS1C200MZ4T1GOSCT-ND	.47	3.74	28.05	—	—	
	300	300	50	25	1.5	PZTA92T1GOSCT-ND	.50	3.54	23.60	1,000	94.18	
<b>SOT-323/SC-70 — RoHS Compliant</b>												
10	40	40	0.2	80	.150	MMBT3906WT1GOSCT-ND	.34	2.24	9.72	3,000	26.44/M	
	60	60	0.6	50	.150	MMBT2907AWT1GOSCT-ND	.34	2.24	9.72	3,000	26.44/M	
<b>SOT-363/SC-88 — RoHS Compliant</b>												
11	12	12	2	100	.650	NSL12AWT1GOSCT-ND	.38	3.00	20.50	3,000	86.74/M	
	12	12	2	100	.650	NSS12200WT1GOSCT-ND	.45	3.54	24.16	3,000	102.44/M	
<b>Dual SOT-363/SC-88 — RoHS Compliant</b>												
11	40	40	0.2	80	.150	MBT3906DW1T1GOSCT-ND	.41	2.79	13.13	3,000	38.58/M	
	45	50	0.1	220	.380	BC857BDW1T1GOSCT-ND	.45	3.06	14.42	3,000	42.13/M	
<b>SC74-6 — RoHS Compliant</b>												
11	30	40	0.7	150	.665	NSS3007MR6T1GOSCT-ND	.50	4.00	29.99	3,000	141.27/M	
<b>TSOP-6 — RoHS Compliant</b>												
11	35	55	2	100	1	NSS35200MR6T1GOSCT-ND	.55	4.71	37.17	3,000	180.09/M	
<b>SOT-316/SC-75 — RoHS Compliant</b>												
13	40	40	0.2	30	0.2	MMBT3906TT1GOSCT-ND	.32	2.13	9.28	3,000	24.79/M	
<b>DPAK — RoHS Compliant</b>												
14	25	40	5	10	1.4	MJD210GOS-ND	.55	4.74	36.56	—	—	
	25	40	5	70	1.4	MJD210T4GOSCT-ND	.59	5.15	40.63	2,500	196.62/M	
	60	70	10	5	1.75	MJD2955GOS-ND	.74	6.52	50.28	—	—	
	60	70	10	20	1.75	MJD2955T4GOSCT-ND	.82	7.08	55.86	2,500	270.14/M	
	80	—	8	60	1.75	MJD45H11T4GOSCT-ND	.68	5.87	46.39	2,500	223.88/M	

Fig.	VCEO (V)	VCB (V)	IC (A)	HFE (Min.)	Pd (TA @ 25°C) (W)	Digi-Key Part No.	Pricing			Tape and Reel§	
							1	10	100	Qty.	Pricing
14	80	—	8	40	1.75	MJD45H11GOS-ND	.62	5.41	41.74	—	—
	100	100	2	200	1.75	MJD117GOS-ND	.55	4.86	37.48	—	—
	100	100	2	200	20	MJD117T4GOSCT-ND	.59	5.15	40.63	2,500	196.62/M
	100	100	3	10	1.56	MJD32CGOS-ND	.58	4.87	36.56	—	—
	100	100	3	25	1.56	MJD32CT4GOSCT-ND	.67	5.36	40.21	2,500	189.18/M
	100	100	6	30	1.75	MJD42CT4GOSCT-ND	.82	7.08	55.86	2,500	270.14/M
	100	100	8	100	1.75	MJD127GOS-ND	.55	4.74	36.56	—	—
	100	100	8	1K	1.75	MJD127T4GOSCT-ND	.59	5.15	40.63	2,500	196.62/M
	300	300	0.5	30	1.56	MJD350GOS-ND	.50	4.35	33.53	—	—
	300	300	0.5	30	1.56	MJD350T4GOSCT-ND	.55	4.72	37.26	2,500	180.09/M
<b>DPAK-3 — RoHS Compliant</b>											
15B	100	100	4	15	1.4	MJD253T4GOSCT-ND	.73	6.28	49.57	2,500	239.57/M
<b>D2PAK — RoHS Compliant</b>											
16	80	—	10	40	2	MJB45H11GOS-ND	1.15	10.18	80.44	—	—
<b>3-WDFN — RoHS Compliant</b>											
17	12	12	5	250	1.5	NSS12500W3T2GOSCT-ND	.80	6.91	54.52	3,000	263.53/M
<b>1206A ChipFET™ — RoHS Compliant</b>											
18	35	55	2	100	1.35	NSS35200CF8T1GOSCT-ND	.58	5.02	39.65	3,000	191.66/M
<b>SOT-563 — RoHS Compliant</b>											
20	12	12	1	90	.650	NSS12100XV6T1GOSCT-ND	.48	3.77	25.77	4,000	109.05/M
<b>SOT-723 — RoHS Compliant</b>											
23	12	12	1	80	.625	NSS12100M3T5GOSCT-ND	.45	3.54	24.16	8,000	95.83/M
<b>6-WDFN — RoHS Compliant</b>											
24	40	40	2	150	1.5	NSS40200UW6T1GOSCT-ND	.88	7.53	59.48	3,000	287.49/M
<b>NPN/PNP — RoHS Compliant</b>											
<b>DUAL SOT-363/SC-88</b>											
11	40/40	60/40	0.2/-0.2	70/80	.150	MBT3946DW1T1GOSCT-ND	.41	2.79	13.13	3,000	38.58/M
	45/-45	50/-50	0.1/-0.1	200/-200	.380	BC847BPDW1T1GOSCT-ND	.45	3.06	14.42	3,000	42.13/M

Pre-Biased Transistors



Fig.	VCB (V)	VCEO (V)	HFE (Min.)	R1 (K)	R2 (K)	Digi-Key Part No.	Pricing			Tape and Reel§	
							1	10	100	Qty.	Pricing
<b>NPN</b>											
<b>SOT-23 — RoHS Compliant</b>											
8	50	50	35	10	10	MMUN2211LT1GOSCT-ND	2.13	9.28	3,000	24.79/M	
	50	50	60	22	22	MMUN2212LT1GOSCT-ND	2.13	9.28	3,000	24.79/M	
	50	50	80	47	47	MMUN2213LT1GOSCT-ND	2.13	9.28	3,000	24.79/M	
	50	50	80	10	0.21	MMUN2214LT1GOSCT-ND	2.13	9.28	3,000	24.79/M	
	50	50	8	2.2	1	MMUN2231LT1GOSCT-ND	2.13	9.28	3,000	24.79/M	
	50	50	80	6.1	—	MMUN2233LT1GOSCT-ND	2.13	9.28	3,000	24.79/M	
<b>SOT-363 — RoHS Compliant</b>											
11	50	50	35	13	—	MUN5211DW1T1GOSCT-ND	3.23	15.20	3,000	44.61/M	
	50	50	80	61.1	—	MUN5213DW1T1GOSCT-ND	3.23	15.20	3,000	44.61/M	
	50	50	80	7	0.17	MUN5214DW1T1GOSCT-ND	3.23	15.20	3,000	44.61/M	
	50	50	160	7	—	MUN5215DW1T1GOSCT-ND	3.23	15.20	3,000	44.61/M	
<b>SC-59</b>											
12	50	50	35	10	10	MUN2211T1GOSCT-ND	2.24	9.72	3,000	26.44/M	
	50	50	80	47	47	MUN2213T1GOSCT-ND	2.82				