

Low-Saturation Voltage Series(TO-220, MF, ML Package)

Applications
 查询"2SB1134Q"供应商

* Relay drivers. * High-speed inverters. * Converters. * High-current switching.

Features

* Low VCE(sat). * Highly resistant to breakdown because of wide ASO. * Fast switching speed.

VCEO 30V Series (hFE:Q,R,S)

(For PNP, minus sign is omitted.)

Type No.	Package	Absolute Maximum Ratings/Ta=25℃				Electrical Characteristics/Ta=25℃						
		V _{CBO} (V)	V _{CEO} (V)	I _C (A)	P _C T _c =25℃ (W)	V _{CE} (V)	I _C (A)	h _{FE}	I _C (A)	I _B (A)	V _{CE(sat)} max (V)	f _T (MHz)
2SB1267 2SD1903	TO-220MF	60	30	8	30	2	1	70~280	3	0.15	0.5 0.4	120
2SB919 2SD1235	TO-220			8	30				3	0.15	0.5 0.4	
2SB903 2SD1212				12	35				5	0.25	0.5 0.4	
2SB1467 2SD2218				TO-220 ML	8				20	3	0.15	
2SB1468 2SD2219	12				25				5	0.25	0.5 0.4	

VCEO 50V/60V Series (hFE:Q,R,S)

2SB1268 2SD1904	T0-220MF	60	50	5	30	2	1	70~280	3	0.3	0.4 0.4	30
2SB1269 2SD1905				7	40				4	0.4	0.4 0.4	10
2SB824 2SD1060	T0-220			5	30				3	0.3	0.4 0.4	30
2SB825 2SD1061				7	40				4	0.4	0.4 0.4	10
2SB826 2SD1062				12	40				6	0.3	0.5 0.4	10
2SB1134 2SD1667	T0-220ML			5	25				3	0.3	0.4 0.4	30
2SB1135 2SD1668				7	30				4	0.4	0.4 0.4	10
2SB1136 2SD1669				12	30				6	0.6	0.4 0.4	10
2SA1289 2SC3253	T0-220	80	60	5	30	2	1	70~280	2.5	125m	0.4 0.4	100
2SA1290 2SC3254				7	35				3.5	175m	0.4 0.4	
2SA1291 2SC3255				10	40				5	0.25	0.4 0.4	
2SA1469 2SC3746	T0-220ML			5	20				2.5	125m	0.4 0.4	
2SA1470 2SC3747				7	25				3.5	175m	0.4 0.4	
2SA1471 2SC3748				10	30				5	0.25	0.4 0.4	

VCEO 80V Series (hFE:Q,R,S)

2SB1270 2SD1906	T0-220MF	90	80	5	30	2	1	70~280	3	0.3	0.5 0.4	20
2SB1271 2SD1907				7	40				4	0.4	0.5 0.4	
2SB920 2SD1236	T0-220			5	30				3	0.3	0.5 0.4	
2SB921 2SD1237				7	40				4	0.4	0.5 0.4	
2SB1454 2SD2202	T0-220ML			5	25				3	0.3	0.5 0.4	
2SB1455 2SD2203				7	30				4	0.4	0.5 0.4	

These specifications are subject to change without notice.

SANYO Discrete Device Package Outlines(unit:mm)

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Small-Signal Transistors

Outlines name	SSFP, SMCP, MCP, MCP4/6, CP, CP4/5/6, CPH3/5/6, PCP, PCP4/5, XP5/6, TP, TP-FA, MFP6, TSSOP8, SOP8, SPA, NP, MP, NMP, FLP, TO-126, TO-126ML, TO-126LP
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Large-Signal Transistors

ZP, SMP, SMP-FD, TO-220, TO-220CI, TO-220ML, TO-220FI (LS),
TO-220MF, TO-3PB, TO-3PML, TO-3PBL, TO-3JML.

 SANYO Transistor Package Name List.

Surface Mount Types

SSFP	Super Small Flat Package
SMCP	Super Mini Chip Pack.
MCP	Mini Chip Pack.
MCP4/6	Mini Chip Pack. (FH type)
CP	Chip Pack.
CP5/6	Chip Pack. (FC type)
CPH3/5/6	* Chip Pack high-power
PCP	Power Chip Pack.
PCP4/5	Power Chip Pack. (FP type)
XP	(FX type)
TSSOP8	(FTS, FTD type)
SOP8	(FW, FSS type)
TP-FA	Tiny Package
SMP-FD	For large signal
ZP	For large signal

Lead Types

ML:No insulating needed.

NMP	New MP
FLP	Full Mold Large Package
TQ-126LP	Large-Power
TQ-126ML	Micaless
TQ-220, 220ML	ML:Micaless type
TQ-220CI	CI:Compact Isolation
TQ-220FI (LS)	Full Isolation (leade short type)
TQ-220MF	Mini Fin Short fin type.
TQ-3PB, 3PML	Bushless ,ML:Micaless
TQ-3PML	Micaless
TQ-3PBL	Bushless Large
TQ-3JML	Jumbo Micaless

PB, BL: no insulating needed.

Notes

* Nomenclature of house NOs.

The first several letters of the type Nos. of the FSS, FTD, FW, FTS, FC, FP, FH, series mean:

1'st F : Packages for complex type devices.
(CP5/6, MCP4/6, PCP4/5, XP5/6, SOP8, TSSOP8)

2'nd S: SOP8 package
2'nd W: Double chips
2'nd T: TSSOP8 package
2'nd C: CP5/6 package
2'nd P: PCP4/5 package
2'nd X: XP5/6 package
2'nd D: Dual type
2'nd H: Ultra high freq. type
3'rd S: Single

Type Nos. of 1XX or 1XXX are p-channel types.

Type Nos. of 2XX or 2XXX are N-channel types.

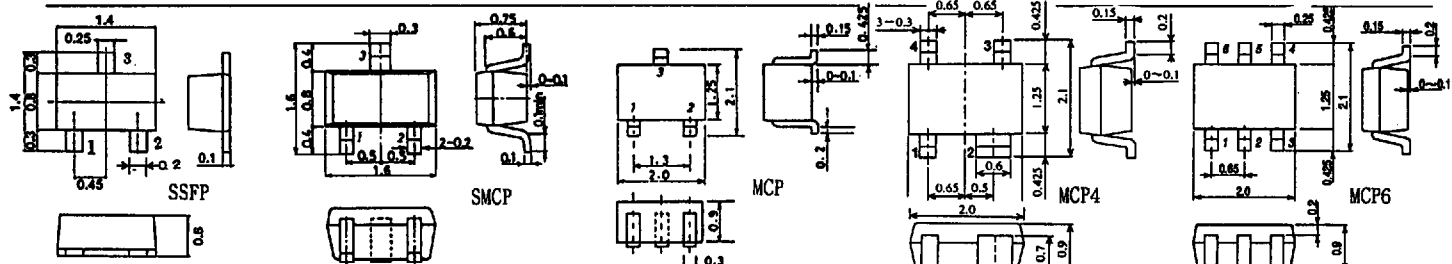
XP package is excluded.

*:How to name CPH3/6 devices. Package name followed by 1,2,3 or 4 and then tow-digit consecutive Nos. Figures following the package names mean; 1:PNP Tr, 2:NPN Tr, 3:

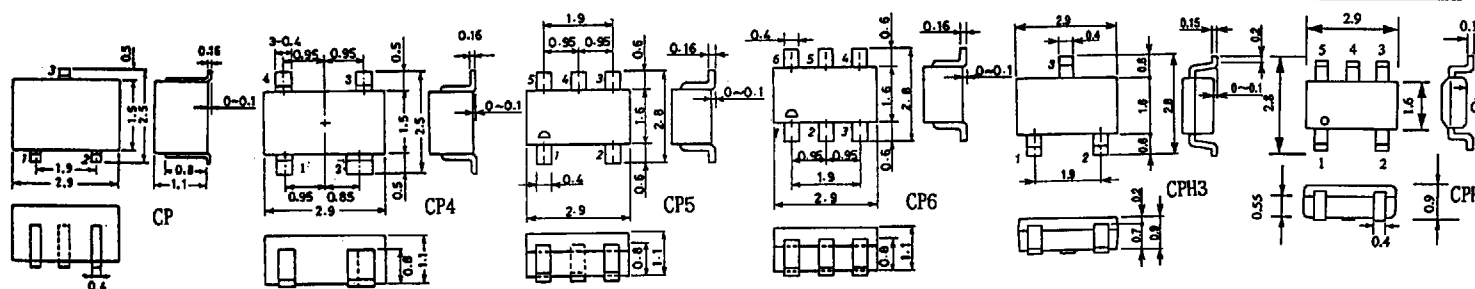
Surface Mount Type Outlines (JEDEC and EIAJ name are in parentheses.)

Top View Pin Nos. of top view are CAD register Nos. Bottom side : Heat sink side.

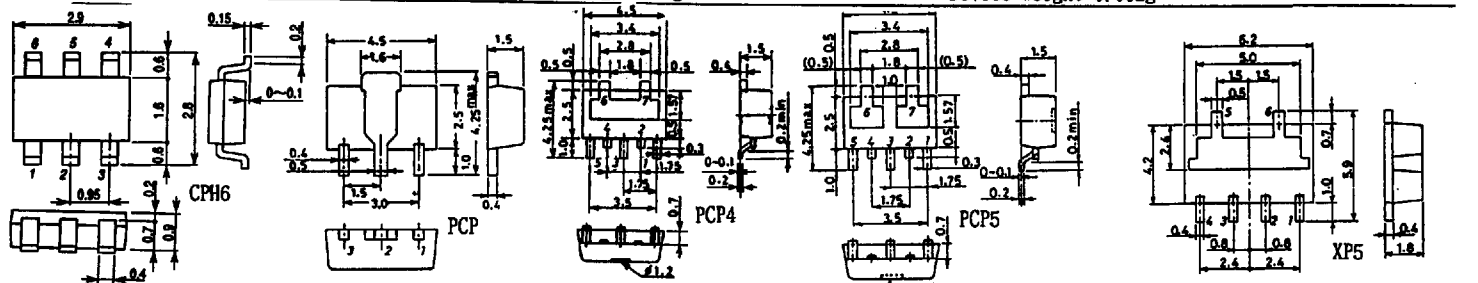
SANYO:SSFP	SANYO:SMCP(SC-75A)	SANYO:MCP(SC-70), MCP4(SC-82, A), MCP6
Device weight:0.002g	Device weight:0.003g	Device weight:0.006g, 0.007g, 0.007g



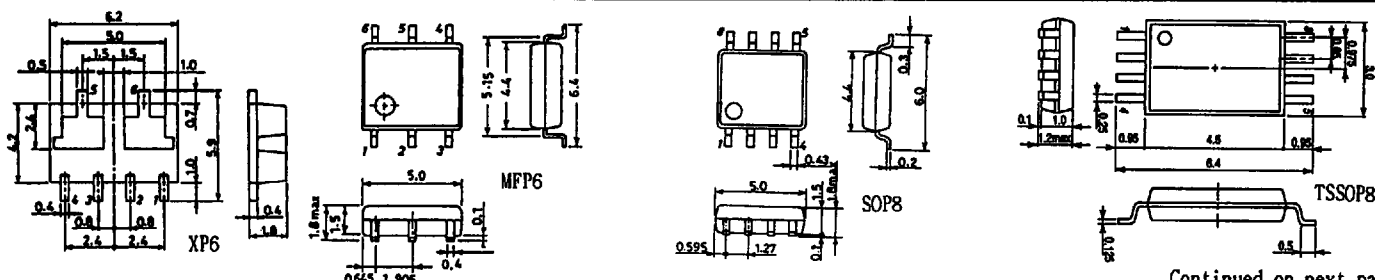
SANYO:CP(SC-59, TO-236)	SANYO:CP4, CP5, CP6(SC-61, SC-74A, SC-74, SOT143)	SANYO:CPH3, CPH5
Device weight:0.013g	Device weight:0.013g, 0.014g, 0.015g	Device weight:0.013g, 0.015g



SANYO:CPH6	SANYO:PCP, PCP4/5(SC-62, SOT89) Bottom View	SANYO:XP5 Bottom View
Device weight:0.015g	Device weight:0.058g, 0.052g	Device weight:0.062g



SANYO:XP6 Bottom View	SANYO:MFP6	SANYO:SOP8	SANYO:TSSOP8
Device weight:0.062g	Device weight:0.089g	Device weight:0.093g	Device weight:0.04g



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SANYO Discrete Device Package Outlines(unit:mm)

查询"25B11340"供应商

Surface Mount Type Outlines(JEDEC and EIAJ name are in parentheses.)

Top View Pin Nos. of top view are CAD register Nos. Bottom side : Heat sink side.

SANYO:TP, TP-FA(SC-64, SC-63, TO-251)

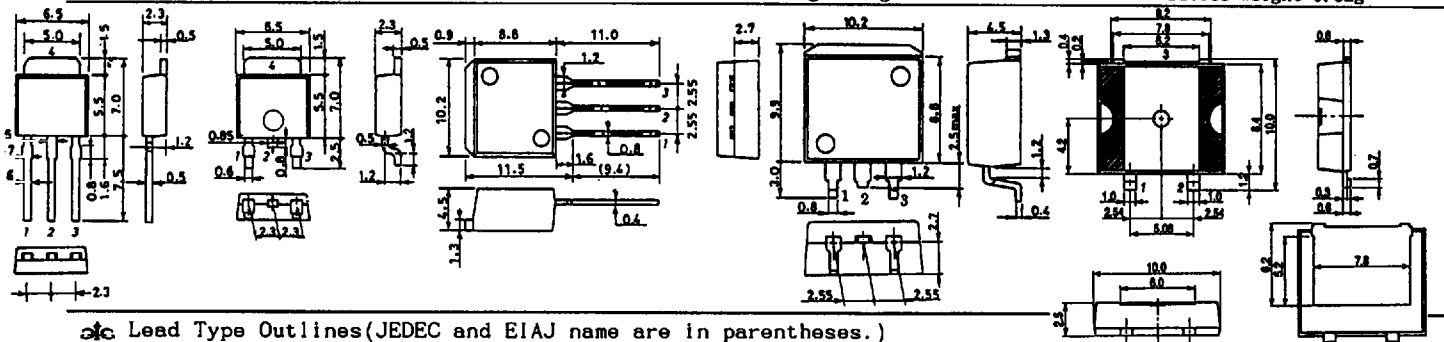
Device weight:0.315g, 0.282g

SANYO:SMP, SMP-FD(forming type)(SC-83)

Device weight:1.4g

SANYO:ZP

Device weight:0.62g



Lead Type Outlines(JEDEC and EIAJ name are in parentheses.)

Top View (Pin No.: CAD register Nos.)

SANYO:SPA(TO-18, TO-39)

Device weight:0.098g

SANYO:NP(SC-43A, TO-92, SOT-54)

Device weight:0.269g

SANYO:MP(SC-51, TO-226)

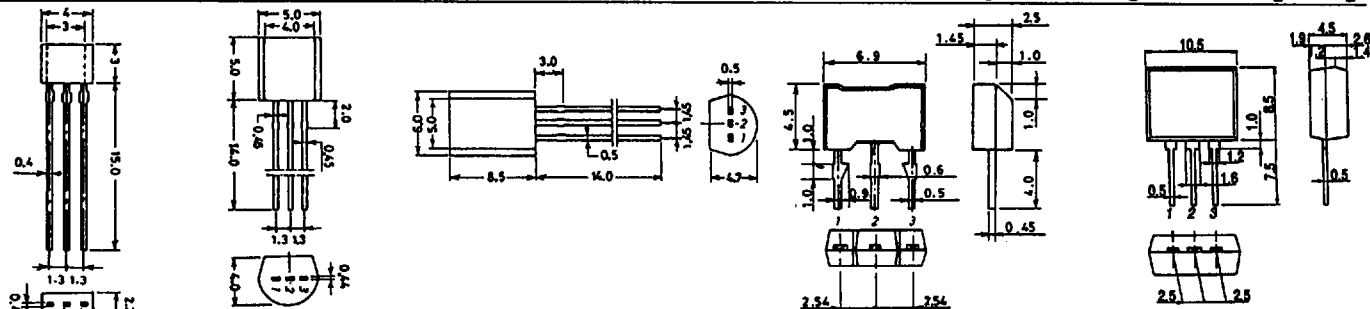
Device weight:0.578g

SANYO:NMP(SC-71)

Device weight:0.21g, AN use:0.275g

SANYO:FLP

Device weight:1.1g

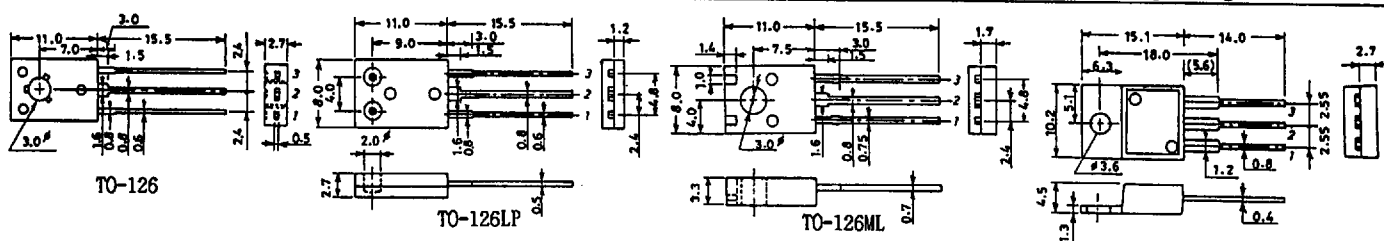


SANYO:TO-126(TO-126, TO-225, SOT-32), TO-126LP, TO-126ML(SOT-82)

Device weight : 0.675g, 0.7g, 0.97g

SANYO:TO-220AB, AB(SC-45, 46, TO-220AA)

Device weight:1.9g



SANYO:TO-220CI

Device weight:1.75g

SANYO:TO-220ML(SC-67, SOT-186)

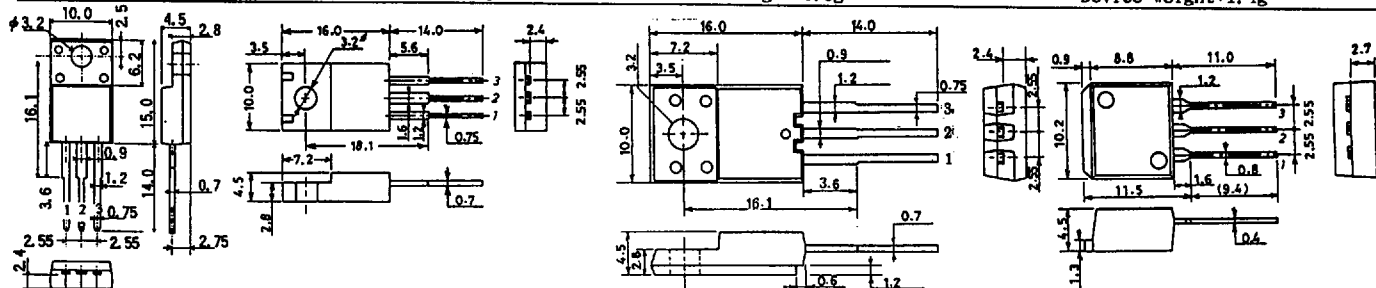
Device weight:1.9g

SANYO:TO-220FI(1S)(SC-67, SOT-189)

Device weight:1.8g

SANYO:TO-220MF

Device weight:1.4g



SANYO:TO-3PB(SC-65, TO-218)

Device weight:5.8g

SANYO:TO-3PML(1SOWATT218)

Device weight:5.3g

SANYO:TO-3PBL(TO-247)

Device weight:9.2g

SANYO:TO-3JML

Device weight:9.2g

