

Power Transistor

Surface Mount Package SMP(Surface Mount Power)

In recent years surface mount semiconductor products have found wide application from small-signal consumer equipment to high-power industrial equipment. To meet user needs, we offer Sanyo power transistor surface mount package SMP (Surface Mount Power) that makes possible surface mounting of high-current switching transistors and high-voltage switching transistors. The SMP is suitable for high-density mounting and automatic placement.

Features

The packing method comes in two types: stick and tape with embossed cavities that meet automatic placement requirements. In addition, it can be used for more various applications because the straight-lead type has become available.

Low Saturation Voltage (High-Current Switching)

Type No.	Absolute Maximum Ratings/Ta=25°C				Electrical Characteristics/Ta=25°C								Related Type No.
	V _{CBO} (V)	V _{CEO} (V)	I _C (A)	P _C T _c =25°C (W)	V _{CE} (V)	I _C (A)	h _{FE}	I _C (A)	I _B (A)	V _{CE(sat)} max (V)	f _T typ (MHz)		
2SB1449 2SD2198	60	50	5	30	2	1	70 ~ 280	3	0.3	0.4 0.4	30	2SB1268 2SD1904	
2SB1450 2SD2199			7	40				4	0.4	0.4 0.4	10	2SB1269 2SD1905	
2SB1451 2SD2200	90	80	5	30				3	0.3	0.5 0.4	20	2SB1270 2SD1906	
2SB1452 2SD2201			7	40				4	0.4	0.5 0.4	20	2SB1271 2SD1907	

hFE Rank (Q,R,S)

70	Q	140	100	R	200	140	S	280
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Switching Regulator Use (High-Speed Type)

Type No.	Absolute Maximum Ratings/Ta=25°C				Electrical Characteristics/Ta=25°C										Related Type No.
	V _{CBO} (V)	V _{CEO} (V)	I _C (A)	P _C Tc=25°C (W)	V _{CE} (V)	I _C (A)	h _{FE} (1) min max	V _{CE} (V)	I _C (A)	h _{FE} (2) min	V _{CE} (V)	I _C (A)	f _T typ (MHz)	t _f max (us)	
2SC4597	500	400	4	40	5	0.4	15 ~ 50	5	2	10	10	0.4	20	0.3	2SC4219
2SC4598			7	50		0.8	15 ~ 50		4	10		0.8	20		2SC4220
2SC4599	800	500	3	40		0.3	15 ~ 50		1.5	8		0.3	18		2SC4221
2SC4600			5	50		0.6	15 ~ 50		3	8		0.6	18		2SC4222
2SC4601	1100	800	1.5	40		0.1	10 ~ 40		0.5	8		0.1	15		2SC4223
2SC4602			3	50		0.2	10 ~ 40		1	8		0.2	15		2SC4224

In addition to the above mentioned, MOS FETs and schottky barrier diodes are available (Package:SMP). See the quick guides.

hFE Subrank (When specifying the hFE rank, specify two ranks or more.)

(For V_{CEO} ≤ 400V, 500V)

(For V_{CEO} ≤ 800V)

15	L	30	20	M	40	30	N	50
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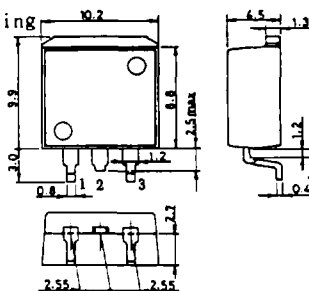
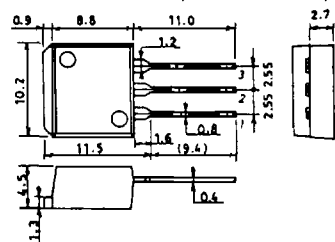
10	K	20	15	L	30	20	M	40
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Outlines(unit:mm) SANYO:SMP

Straight type

FD Forming

1:Base, 2:Collector, 3:Emitter



Product code numbers have been changed as shown below. Please contact Product Planning Department when you have a plan to use these transistors.

Label indication (an example)
Straight type : 2SB1449
FD forming : 2SB1449-FD5

*Existing FA-forming products will discontinue in the future.

These specifications are subject to change without notice.