

## Small-Signal High-Voltage Schottky Barrier Diodes (1)

Sanyo Schottky barrier diodes (SBD) have been developed by our original technology. They are available for making sets smaller in size and lighter in weight.

Sanyo small-signal SBDs with breakdown voltages of 15V, 30V, 50V, 90V, 150V, and 180V can be applied to various uses.

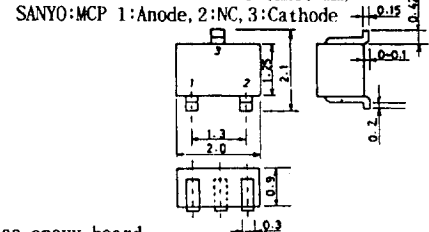
### Features

- \* Very low forward voltage. (VF max)
- \* Fast reverse recovery time. (trr max)
- \* Low switching noise.
- \* Low leakage current and high reliability due to highly reliable planar structure.
- \* Small-sized package, permitting applied sets to be compact and slim.
- \* Products of the signal type, the twin type and the series connection type have their respective product line with VRRM of 30V and 50V. See tables.

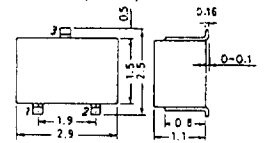
### Applications

- \* Universal use rectifier.
- \* High frequency rectification (switching regulators, converters, choppers)

Case Outlines (unit:mm)

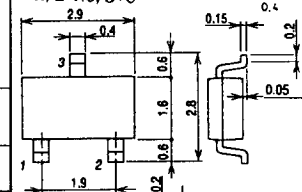


SANYO:CP  
1:A, 2:NC, 3:C

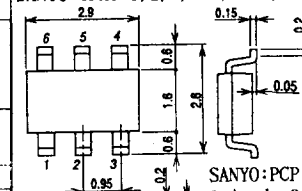


SANYO:CPH3

1:A, 2:NC, 3:C

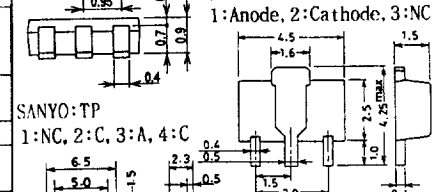


SANYO:CPH6 1, 2, 5, 6:C, 3:NC, 4:A.



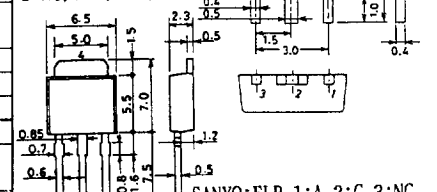
SANYO:PCP

1:Anode, 2:Cathode, 3:NC

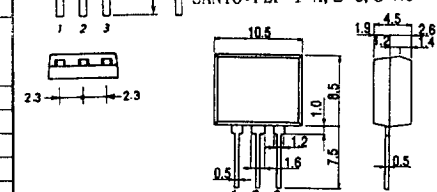


SANYO:TP

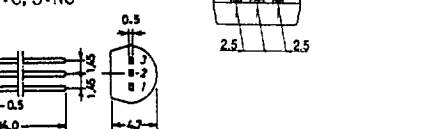
1:NC, 2:C, 3:A, 4:C



SANYO:FLP 1:A, 2:C, 3:NC



SANYO:MP 1:A, 2:C, 3:NC



### Single Type

Rthj-a : CPH3/6 package : Mounted on ceramic board (600mm<sup>2</sup> x 0.8mm),

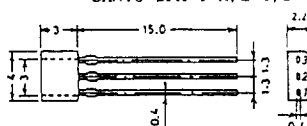
※: Mounted on ceramic board (250mm<sup>2</sup> x 0.8mm) ☆: Mounted on Cu foil (16mm<sup>2</sup> x 0.2mm) on glass epoxy board

○: Refer to the individual catalogue of each product because the center part of PCP outline is completely different.

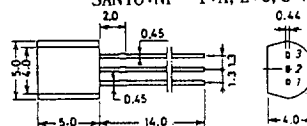
†IFSM: 50Hz sine wave 1 cycle.

Type No. ( ): Marking	Package	Absolute Maximum Ratings/Ta=25°C			Electrical Characteristics/Ta=25°C						
		V <sub>RRM</sub> (V)	I <sub>O</sub> (A)	†I <sub>FSM</sub> (A)	I <sub>F</sub> (A)	V <sub>F max</sub> (V)	V <sub>R</sub> (V)	I <sub>R max</sub> (μA)	I <sub>F</sub> (A)	t <sub>rr max</sub> (nS)	R <sub>thj-a</sub> *: †: typ (°C/W)
SBS001C(T)	C P	12	0.5	10	0.5	0.45	6	200	0.1	typ50	560
SB07-015C(R)	C P	15	0.7	5	0.7	0.55	7.5	20	0.1	10	560
SB10-015C(S)			1	5	1	0.55	7.5	50	0.1	10	420
SBS004(SC)	CPH3	15	1	10	0.5	0.35	6	500	0.1	typ10	110
SB10-015P(SI)	P C P		1	8	1	0.55	7.5	50	0.1	10	※120
SB007-03Q(G)	M C P	30	0.07	2	0.07	0.55	15	5	0.01	10	-
SB02-03Q(H)			0.2	2	0.2	0.55	15	15	0.01	10	-
SB05-03Q(Q)			0.5	3	0.5	0.55	15	30	0.1	10	600
SBS006(SA)			0.5	10	0.3	0.4	10	200	0.1	10	-
SB007-03CP(G)	C P	30	0.07	2	0.07	0.55	15	5	0.01	10	☆430
SB02-03C(H)			0.2	2	0.2	0.55	15	15	0.01	10	☆380
SB05-03C(Q)			0.5	5	0.5	0.55	15	30	0.1	10	560
SB07-03C(J)			0.7	5	0.7	0.55	15	80	0.1	10	☆330
SBS005(SD)	CPH3	30	1	10	0.5	0.4	15	500	0.1	10	110
SBE001(SA)	CPH6		2	20	2	0.55	15	100	0.1	20	110
SB07-03P(SD)	P C P	30	0.7	5	0.7	0.55	15	80	0.1	10	※120
SB20-03P(SC)			2	20	2	0.55	15	100	0.1	20	※110
SB30-03P(SG)○			3	10	3	0.55	15	200	0.3	30	※100
SB007-03SPA	S P A	30	0.07	2	0.07	0.55	15	5	0.01	10	450
SB02-03S	0.2		2	0.2	0.55	15	15	0.01	10	370	
SB07-03N	N P	30	0.7	5	0.7	0.55	15	80	0.1	10	165
SB30-03T	T P		3	20	3	0.55	15	200	0.3	30	90
SB40-03T	T P	30	4	40	4	0.55	15	200	0.3	30	90
SB30-03Z	F L P		3	20	3	0.55	15	200	0.3	30	75
SB20-03B	TO-126	30	2	20	2	0.55	15	100	0.1	20	※7
SB20-03E	TO-126ML		2	20	2	0.55	15	100	0.1	20	※7
SB01-05Q(A)	M C P	50	0.1	2	0.1	0.55	25	15	0.01	10	-
SB01-05CP(A)	C P		0.1	2	0.1	0.55	25	15	0.01	10	☆410
SB05-05CP(B)	C P	50	0.5	5	0.5	0.55	25	50	0.1	10	☆330
SBE002(SD)	CPH6		1	10	1	0.55	25	80	0.1	10	110
SB05-05P(SB)	P C P	50	0.5	5	0.5	0.55	25	50	0.1	10	※120
SB10-05PCP(SA)			1	10	1	0.55	25	80	0.1	10	※110
SB20-05P(SH)○			2	10	2	0.55	25	200	0.3	20	※100
SB01-05SPA	S P A	50	0.1	2	0.1	0.55	25	15	0.01	10	300
SB05-05NP	N P		0.5	5	0.5	0.55	25	50	0.1	10	165
SB20-05T	T P	50	2	20	2	0.55	25	200	0.3	20	90
SB10-05	M P		1	10	1	0.55	25	80	0.1	10	110
SB20-05Z	F L P	2	20	2	0.55	25	200	0.3	20	75	

SANYO:SPA 1:A, 2:C, 3:NC



SANYO:NP 1:A, 2:C, 3:NC



SANYO:MP 1:A, 2:C, 3:NC

