

## 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.

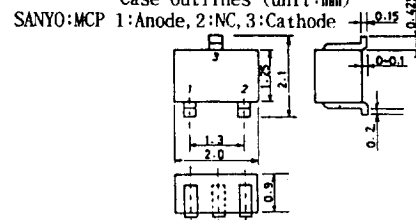
### Features

- \* 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.

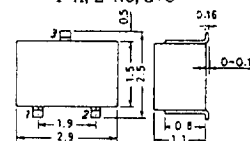
### Applications

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

Case Outlines (unit:mm)

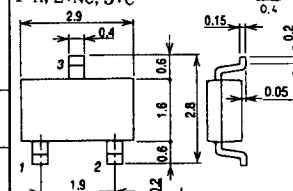


SANYO:CP  
1:A, 2:NC, 3:C

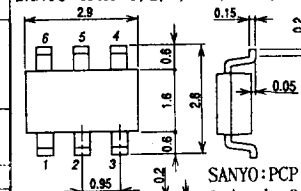


SANYO:CPH3

1:A, 2:NC, 3:C

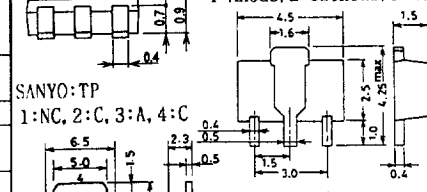


SANYO:CPH6 1, 2, 5, 6:C, 3:NC, 4:A.



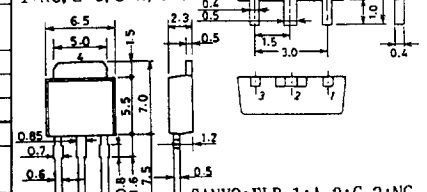
SANYO:PCP

1:Anode, 2:Cathode, 3:NC

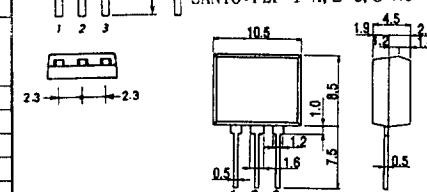


SANYO:TP

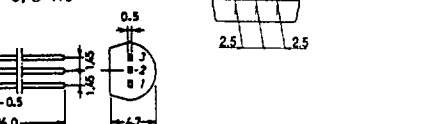
1:NC, 2:C, 3:A, 4:C



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),

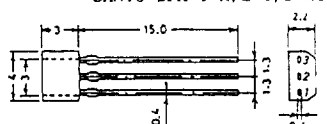
※: Mounted on ceramic board (250mm<sup>2</sup> x 0.8mm) ☆: Mounted on Cu foil (16mm<sup>2</sup> x 0.2mm) on glass epoxy board

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

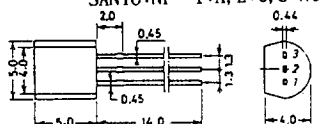
†IFSM: 50Hz sine wave 1 cycle.

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)0			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)0			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

