

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

Sanyo Schottky barrier diodes (S B D) 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

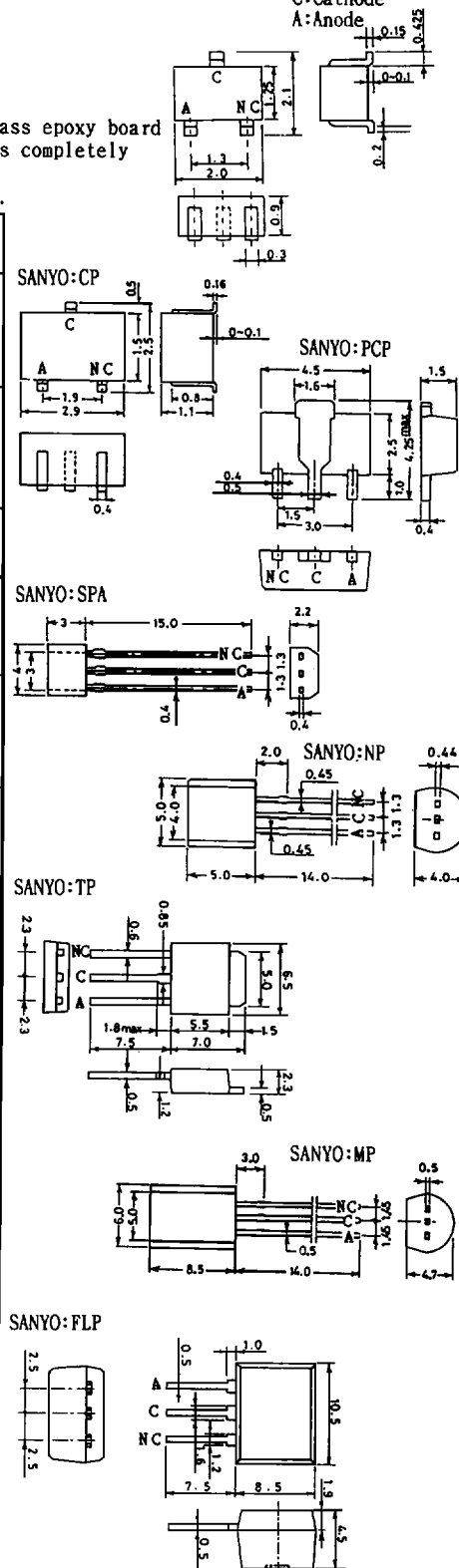
- \* Very low forward voltage. (VF max)
- \* Fast reverse recovery time. (trr max)
- \* Low switching noise.
- \* Low leakage current and high reliability due to highly reliable planar structure.
- \* Small-sized package, permitting applied sets to be compact and slim.

### Applications

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

Case Outlines (unit:mm)

SANYO:MCP  
C:Cathode  
A:Anode



### Single Type

※: Mounted on ceramic board (250mm<sup>2</sup> × 0.8mm) ☆: Mounted on Cu foil (16mm<sup>2</sup> × 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</sub> max *: (2) value (V)	V <sub>R</sub> (V)	I <sub>R</sub> max (μA)	I <sub>F</sub> (A)	t <sub>rr</sub> max (nS)	R <sub>thj-a</sub> *: -c typ (°C/W)
<b>15V Series</b>											
SB07-015C(R)	C P	15	0.7	5	0.1	0.55	7.5	20	0.1	10	560
SB10-015C(S)			1	5	0.1	0.55 (*0.42)	7.5	50	0.1	10	420
SB10-015P(SI)	P C P		1	8	0.1	0.55 (*0.40)	7.5	50	0.1	10	※120
<b>30V Series</b>											
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			15	0.01	10	-
SB05-03Q(Q)			0.5	3	0.5			30	0.1	10	600
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			15	0.01	10	☆380
SB05-03C(Q)			0.5	5	0.5			30	0.1	10	560
SB07-03C(J)			0.7	5	0.7			80	0.1	10	☆330
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			100	0.1	20	※110
SB30-03P(SC)⊙			3	10	3			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			15	0.01	10	370
SB07-03N	N P		0.7	5	0.7			80	0.1	10	165
SB30-03T	T P	30	3	20	3			200	0.3	30	90
SB40-03T			4	40	4	200	0.3	30	90		
SB30-03Z	F L P		3	20	3			200	0.3	30	75
SB20-03B	TO-126		2	20	2			100	0.1	20	*7
SB20-03E	TO-126ML		2	20	2			100	0.1	20	*7
<b>50V Series</b>											
SB01-05Q(A)	M C P		0.1	2	0.1			15	0.01	10	-
SB01-05CP(A)	C P	50	0.1	2	0.1	0.55	25	15	0.01	10	☆410
SB05-05CP(B)			0.5	5	0.5			50	0.1	10	☆330
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			80	0.1	10	※110
SB20-05P(SH)⊙			2	10	2			200	0.3	20	※100
SB01-05SPA	S P A		0.1	2	0.1			15	0.01	10	300
SB05-05NP	N P		0.5	5	0.5			50	0.1	10	165
SB20-05T	T P		2	20	2			200	0.3	20	90
SB10-05	M P		1	10	1			80	0.1	10	110
SB20-05Z	F L P		2	20	2			200	0.3	20	75