

Power Schottky Barrier Diodes (For Large-Signal Use)

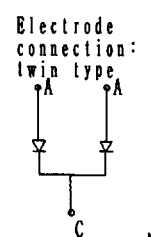
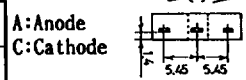
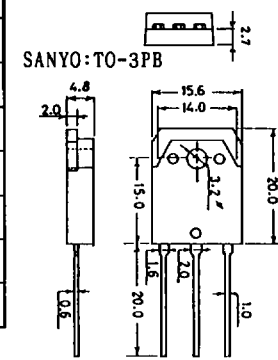
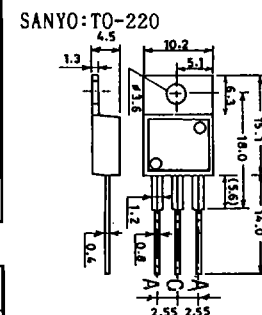
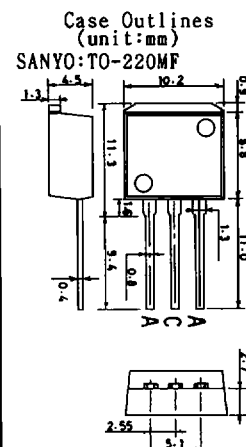
Sanyo Schottky barrier diodes (SBD) have been developed by our original technology. They are available for making sets smaller in size and lighter in weight. Sanyo power SBDs with breakdown voltages of 50V, 90V and 180V can be applied to various uses.

Features

- ☆ High reliability because of planar structure.
- ☆ Very low forward voltage.
- ☆ Low switching noise.
- ☆ We have a product line with breakdown voltages of 50V, 90V and 180V.

50V Series (T_a = 25 °C)

Type No.	Package	Absolute Maximum Ratings			Electrical Characteristics						
		V _{RRM} (V)	I _O (A)	I _{FSM} (A)	I _F (A)	V _F max (V)	V _R (V)	I _R max (mA)	I _F (A)	t _{rr} max (nS)	R _{thj-c} (°C/W)
SB60-05K	TO-220MF	-50	6	100	3	0.55	-25	-0.3	2	50	3.0
SB20-05H	TO-220		2	60	1			-0.1		30	5.0
SB40-05H			4	80	2			-0.2		40	4.0
SB60-05H			6	100	3			-0.3		50	3.0
SB80-05H			8	100	4			-0.4		60	2.5
SB100-5H			10	100	5			-0.5		60	2.5
SB120-05H	TO-3PB		12	120	6			-0.6		70	1.5
SB160-05H			16	140	8			-0.8		75	1.3
SB200-05H			20	200	10			-1.0		85	1.1
SB250-05H			25	250	12.5			-1.2		90	1.0
SB300-05H		30	250	15	-1.5	90	1.0				



90V Series (T_a = 25 °C)

SB100-09K	TO-220MF	-90	10	80	4	0.85	-45	-0.4	2	45	2.5
SB30-09	TO-220		3	40	1.2			-0.2		30	5.0
SB50-09			5	60	2			-0.2		35	4.0
SB80-09			8	80	3			-0.3		40	3.0
SB100-09			10	80	4			-0.4		45	2.5
SB160-09			16	100	6			-0.6		50	1.5
SB200-09	TO-3PB		20	120	8			-0.8		55	1.3
SB250-09			25	160	10			-1		60	1.1
SB300-09			30	180	12			-1.2		70	1.0

180V Series (T_a = 25 °C)

SB10-18K	TO-220MF	-180	1	30	0.4	0.85	-90	-0.1	2	35	5.0
SB50-18K			5	60	2			-0.4		40	2.5
SB10-18	TO-220		1	30	0.4			-0.1		35	5.0
SB20-18			2	40	0.8			-0.2		35	4.0
SB30-18			3	60	1.2			-0.3		40	3.0
SB50-18			5	60	2.0			-0.4		40	2.5
SB80-18			8	80	3.0			-0.6		40	1.5
SB100-18	TO-3PB		10	100	4.0			-0.8		45	1.3
SB120-18			12	120	5.0			-1		50	1.1
SB160-18			16	140	6.0			-1.2		60	1.0

These specifications are subject to change without notice.