

New Product (For Large-Signal Use) Power Schottky Barrier Diodes(S.B.A)

Sanyo Schottky barrier diodes are fabricated with our original high-voltage planar-structure technology. We have a product line with VRRM of 40V, 50V, 80V, 90V and 180V, which can be applied to various uses. In particular, SBA series which is introduced below has lower VF than that of the conventional series. In this series we have a product line with breakdown voltage of 40V 90V and 180V. Therefore it can be applied 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 40V 90V and 180V.
- ☆ Micaless package can be mounted easily.
- ☆ The ZP and SMP(surface mount power) is suitable for surface mounting. This package makes it possible to reduce mounting time and to make sets denser and more compact.

Use

- ☆ Suited for rectifying in high frequency circuits such as switching regulators, converters and choppers.

40V Series (Ta = 25°C)

Type No.	Package	Absolute Maximum Ratings			Electrical Characteristics				
		V _{RRM} (V)	I _O (A)	I _{FSM} (A)	V _F max (V)	I _R max (mA)	R _{thj-c} (°C/W)		
								I _F (A)	
SBA100-04ZP	ZP	40	10	100	5	0.55	20	0.2	-
SBA160-04ZP			16	120	8			0.3	-
SBA50-04Y	SMP		5	80	2.5			0.1	4
SBA100-04Y			10	100	5			0.2	3
SBA160-04Y			16	120	8			0.3	1.7
SBA50-04J			TO-220ML	5	80			2.5	0.1
SBA100-04J	10			100	5			0.2	4
SBA160-04R	TO-3PML		16	120	8			0.3	2.4
SBA250-04R			25	200	12.5			0.5	2

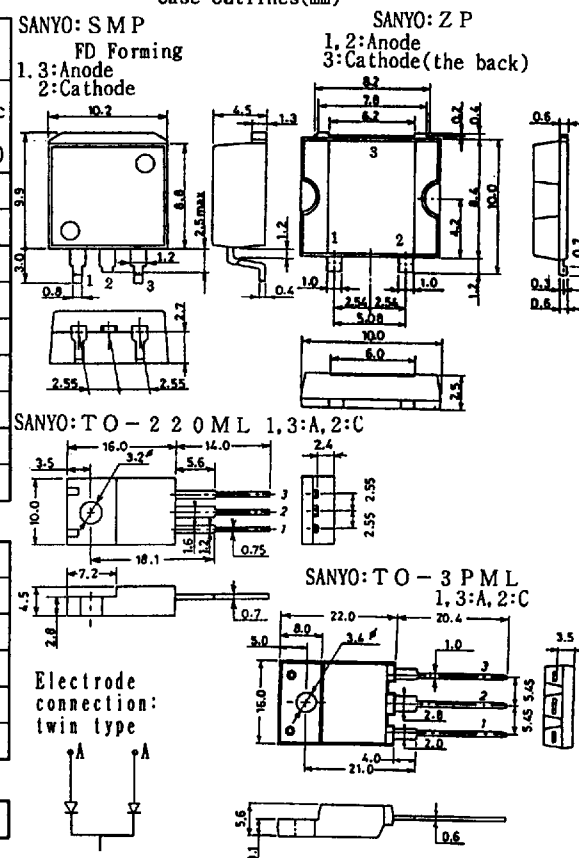
90V Series (Ta = 25°C)

SBA50-09Y	SMP	90	5	60	2.5	0.75	45	0.1	4	
SBA100-09Y			10	80	5			0.2	3	
SBA50-09J	TO-220ML		5	60	2.5			0.1	5	
SBA100-09J			10	80	5			0.2	4	
SBA160-09R	TO-3PML		16	100	8			0.3	2.4	
SBA250-09R			25	160	12.5			0.5	2	

180V Series (Ta = 25°C)

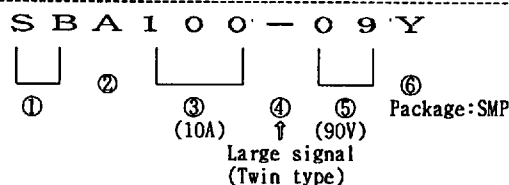
SBA120-18J	TO-220ML	180	12	120	6	0.85	90	0.3	3.0
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Case Outlines(mm)



Supplement

Nomenclature of Schottkey barrier diodes



- ①: Indicates Schottkey barrier diode.
- ②: Low VF products (Lower than those of the earlier line.)
- ③: Indicates average output current. (unit:A) When the leftest figure is "0", it indicates "0.". (e.g. 007 means 0.07A)
- ④: Shows either single or twin. For small signal diodes, "-":single, "W": twin.
For large signal diodes, "-":twin (e.g. SB20-05J is a twin type)
- ⑤: Indicates one tenth of repetitive pack reverse voltage. (unit:V) (e.g. "05" means 50V:VRRM=50V)
- ⑥: Shows each package. (Current packages are shown below.)

Small signal type	X:SMCP, Q:MCP, C:CP, CP:CP, P:PCP, PCP:PCP, S:SPA, SPA:SPA, N:NP, NP:NP, T:TP, Z:FLP, V:NMP, B:TO-126, E:TO-126ML. (MP: No package indication)
Large signal type	J:TO-220ML, K:TO-220MF, R:TO-3PML, Y:SMP, ZP:ZP. (TO-220, TO-3PB: No package indication) H: Sign for inhouse control.
Axial type	A:Axial, D:CP2, HP:Leadless

These specifications are subject to change without notice.