

Schottky Barrier Diodes

Coaxial Type (For rectifiers)

Applications

☆ Suited for high frequency rectifying circuits of switching regulators, converter and choppers.

Features

- ☆ Very small forward voltage.
- ☆ Small switching noise.

Type NO.	Package NO.	Absolute Maximum Ratings/Ta=25°C			Electrical Characteristics/Ta=25°C								
		V _{RRM} (V)	I _O (A)	I _{FSM} (A)	V _{max F}		I _{max R}		t _{rr} ^{max} (ns)	R _{thj-a} TYP (°C/W)	C VR=10V F=1MHZ TYP (pF)		
					I _F (A)	V _F (V)	V _R (V)	I _R (mA)					
3.0 V Series SB10-03A2	A-1	30	1.0	40	1.0	0.55	30	1.0	1.0	30	140	-	
	A-2												
4.0 V Series SB10-04A3	A-2	40	1.0	30	1.0	0.55	40	0.8	-	-	※113	45	
	SB11-04HP		B	1.1	30			1.1	1.0	-	-	※157	-
	SB16-04LHP		C	1.6	60			1.6	2.5	-	-	※120	150
	*SB20-04A		A-3	2.0	100			2.0	0.5	-	-	※100	125
	*SB30-04A		A-4	3.0	120			3.0	3.0	-	-	※57	132
5.0 V Series SB10-05A2	A-1	50	1.0	25	1.0	0.58	50	1.0	1.0	30	140	-	
	A-2												

※ Mounted on PCB

Coaxial Type (For detectors)

Features

- ☆ Glass sleeved structure
- ☆ Rectifying efficiency:70%
- ☆ Small as about half of an existing Do-35.

Type NO.	Package NO.	Absolute Maximum Ratings/Ta=25°C			Electrical Characteristics/Ta=25°C								
		V _R (V)	I _O (mA)	T _j (°C)	I _F min		I _R max		Electrostatic capacitance			Rectifying efficiency	
					V _F (V)	I _F (mA)	V _R (V)	I _R (μA)	V _R (V)	f (MHZ)	C _{max} (PF)	f (MHZ)	η _{min} (%)
SB0015-03A	A-3	30	15	100	1	3.0	10	100	1	1	3.0	40	70
SB0030-01A	A-3	10	30	100	1	4.5	6	70	1	1	1.5	40	70

Package

(unit:mm)

A (Resin)				B (HP)		C (LHP)	
	a	φ b	φ c				
A-1	5.2	0.6	2.5				
A-2	3.2	0.6	2.5				
A-3	7.2	0.8	3.9				
A-4	8.0	1.3	6.0				
A-5(Glass)	2.2	0.4	1.8				

These specifications are subject to change without notice.