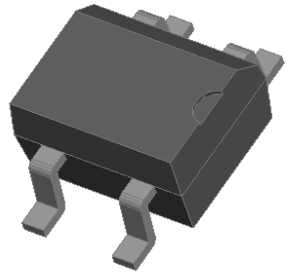
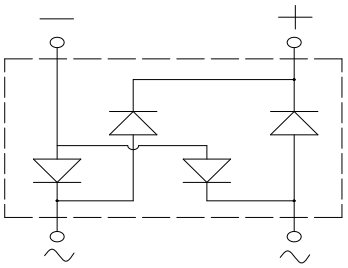
Schottky Bridge Rectifiers





Features

- UL recognition,file #E313149
- Ideal for automated placement
- High surge current capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

Typical Applications

General purpose use in high frequency AC/DC bridge full wave rectification for power supply, lighting ballast, battery charger, home appliances, office equipment, and telecommunication applications.

Mechanical Data

- **Package**: MBS
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body

■Maximum Ratings (T_a=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SB22S	SB24S	SB26S	SB28S	SB210S	SB215S	SB220S
Device marking code			SB22S	SB24S	SB26S	SB28S	SB210S	SB215S	SB220S
Repetitive peak reverse voltage	V_{RRM}	V	20	40	60	80	100	150	200
Average rectified output current @60Hz Half-sine wave, Resistance load, Ta (FIG.1)	I_O	A	2.0						
Surge(non-repetitive)forward current @ 60Hz half-sine wave,1 cycle, Tj=25℃	I_{FSM}	A	50						
Current squared time @1ms≤t≤8.3ms Tj=25℃,rating of per diode	I^2t	A^2s	10.3						
Storage temperature	T_{stg}	℃	-55 ~+150						
Junction temperature	T_j	℃	-55 ~+125			-55 ~+150			

■Electrical Characteristics (T_a=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SB22S	SB24S	SB26S	SB28S	SB210S	SB215S	SB220S
Maximum instantaneous forward voltage drop per diode	VF	V	I_{FM}=1.0A	0.50		0.70	0.85		0.90	
Maximum DC reverse current at rated DC blocking voltage per diode @ VRM=VRRM	I_{RRM}	uA	T_a=25℃	500			100			
			T_a=100℃	10000			5000			

■Thermal Characteristics (Ta=25℃ Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	SB22S	SB24S	SB26S	SB28S	SB210S	SB215S	SB220S
Thermal Resistance	Between junction and ambient, On alumina substrate	RΘJ-A	℃/W	76.0						
	Between junction and ambient, On glass-epoxi substrate	RΘJ-A		134.0						
	Between junction and lead	RΘJ-L		20.0						

■Ordering Information **(Example)**

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBSK22S-MBSK220S	F1	Approximate 0.12	2500	5000	40000	13' reel

■ Characteristics(Typical)

FIG.1 : Io-Ta Curve

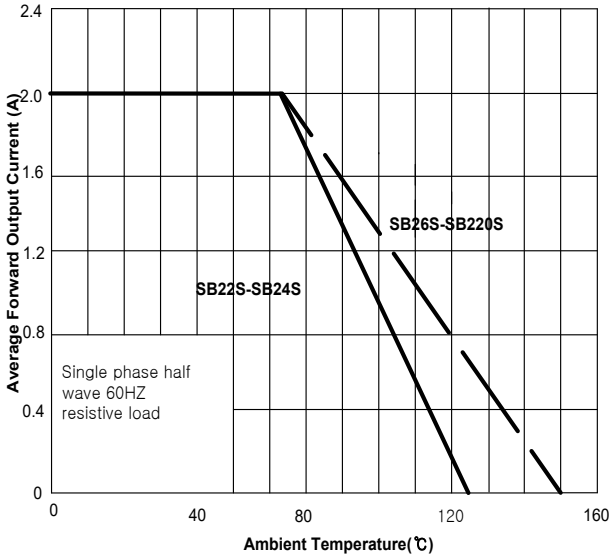


FIG2:Surge Forward Current Capability

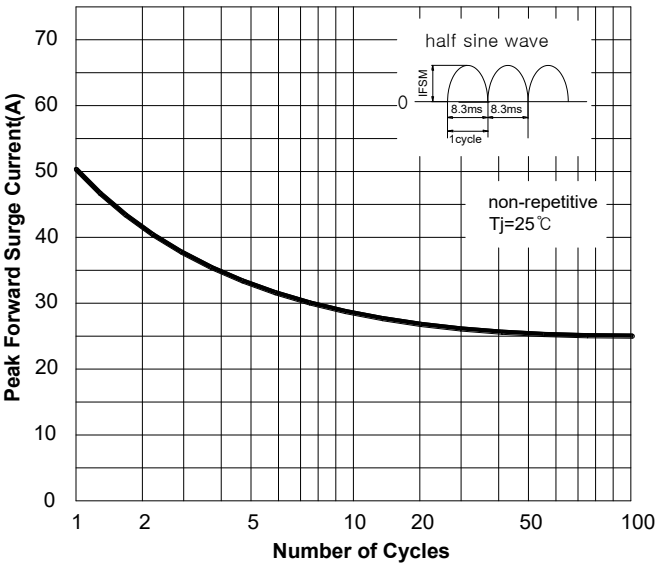


FIG3: Forward Voltage

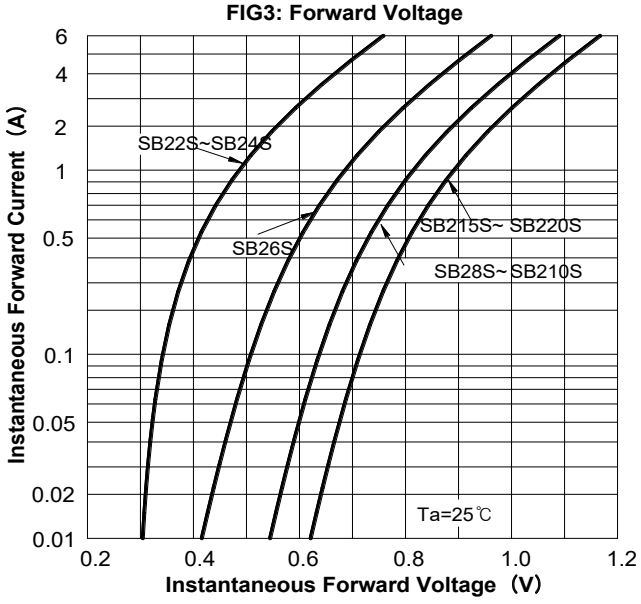
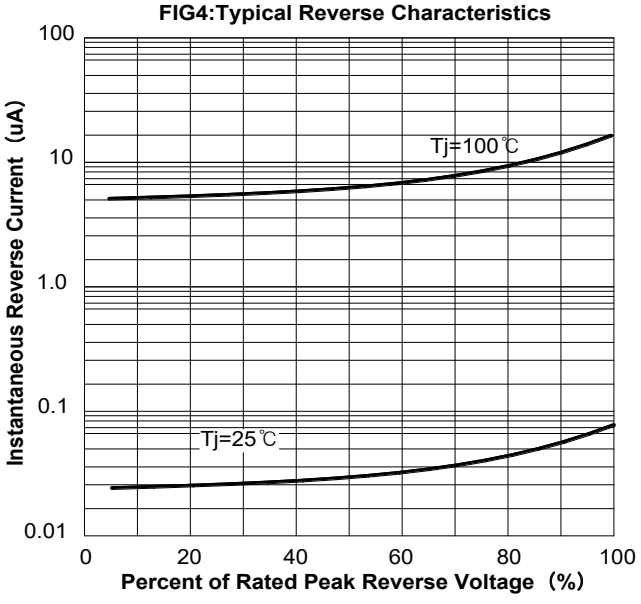
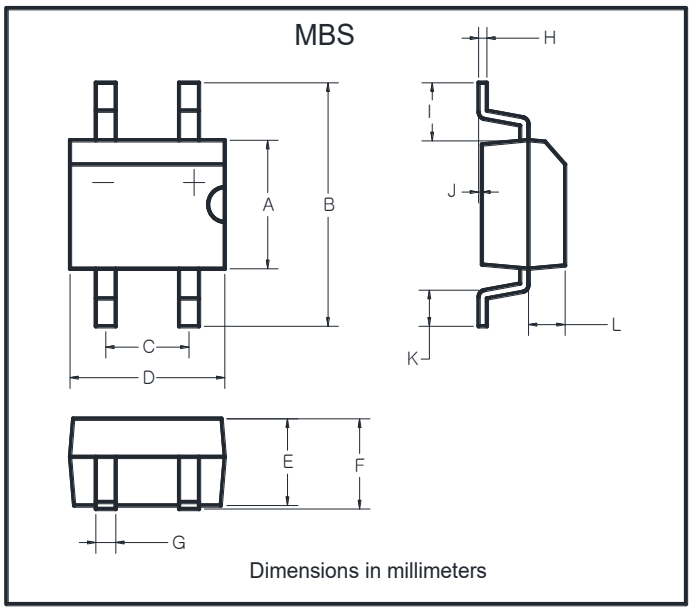


FIG4:Typical Reverse Characteristics

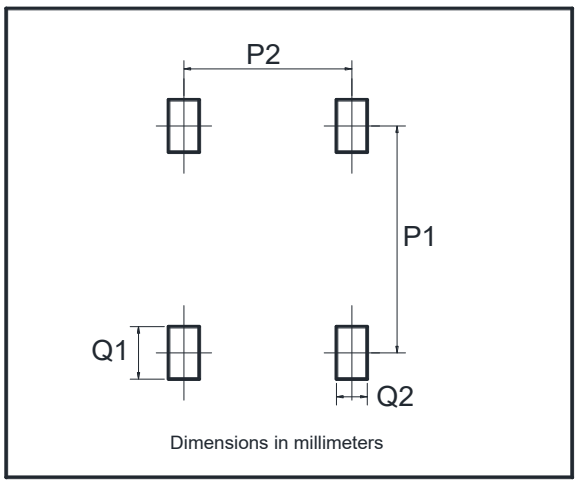


■ Outline Dimensions



MBS		
Dim	Min	Max
A	3.60	4.00
B	7.00 Max	
C	2.20	2.60
D	4.50	4.90
E	2.30	2.70
F	3.00 Max	
G	0.56	0.84
H	0.15	0.35
I	1.10	2.12
J	0.20 Max	
K	0.70	1.10
L	0.95	1.53

■ Suggested pad layout



Dim	Min
P1	6.00
P2	2.40
Q1	1.84
Q2	1.20