

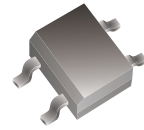
B05S-HF Thru. B10S-HF

Reverse Voltage: 50 to 1000 Volts

Forward Current: 0.8 A

RoHS Device

Halogen Free

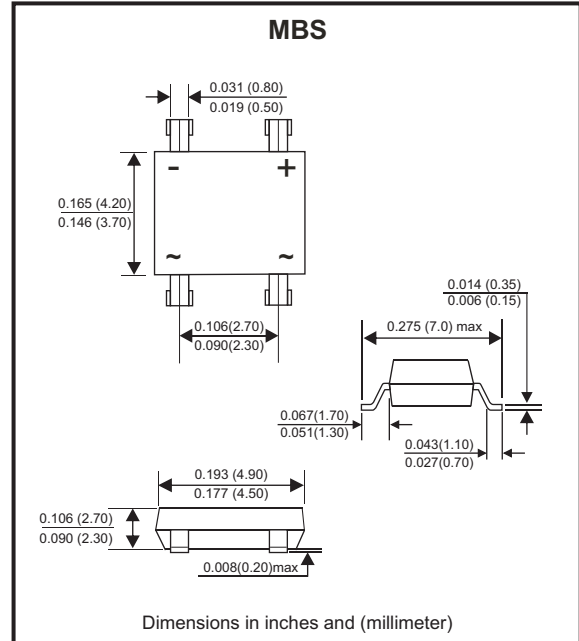


Features

- Rating to 1000V PRV.
- Ideal for printed circuit board.
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product.
- Pb free product.
- UL recognized file # E349301

Mechanical data

- Polarity: Symbol molded on body.
- Weight: 0.125 grams.
- Mounting position: Any.



Maximum Rating And Electrical Characteristics

Rating at $T_A=25^{\circ}\text{C}$, unless otherwise noted.
 Single phase, half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

Parameter	Symbol	B05S-HF	B1S-HF	B2S-HF	B4S-HF	B6S-HF	B8S-HF	B10S-HF	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current (Note 1) @ $T_A=40^{\circ}\text{C}$	$I_{(AV)}$	0.8							A
Peak Forward Surge Current, 8.3ms single half sine-wave, superimposed on rated load (JEDEC Method)	I_{FSM}	30							A
Peak Forward Voltage at 0.8A DC	V_F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_J=25^{\circ}\text{C}$ @ $T_J=125^{\circ}\text{C}$	I_R	5.0 500							μA
Typical Junction Capacitance per element (Note 2)	C_J	15							pF
Typical Thermal Resistance	Junction to ambient	$R_{\theta JA}$							$^{\circ}\text{C/W}$
	Junction to case	$R_{\theta JC}$							
Operating Temperature Range	T_J	-55 to +150							$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^{\circ}\text{C}$

Notes: 1. Mounted on P.C. Board.
 2. Measured at 1.0MHz and applied reverse voltage of 4V DC.

Company reserves the right to improve product design, functions and reliability without notice.

RATING AND CHARACTERISTIC CURVES (B05S-HF thru. B10S-HF)

Fig.1 - Forward Current Derating Curve

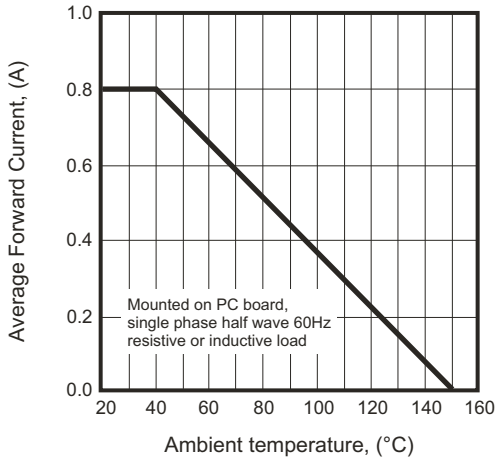


Fig.2 - Maximum Non-Repetitive Surge Current

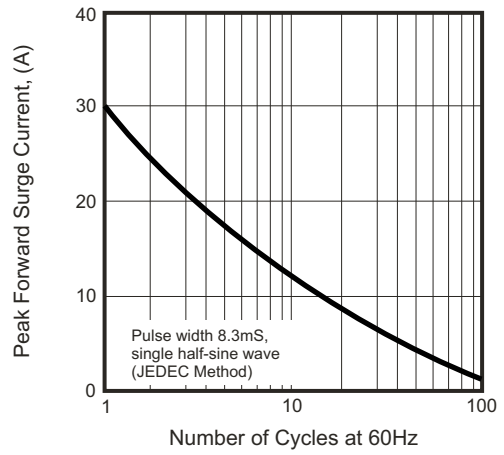


Fig.3 - Typical Reverse Characteristics

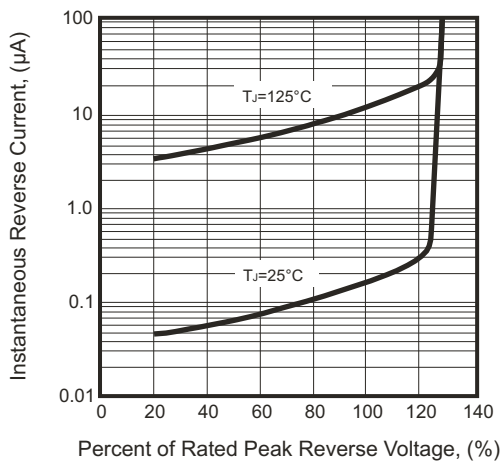


Fig.4 - Typical Forward Characteristics

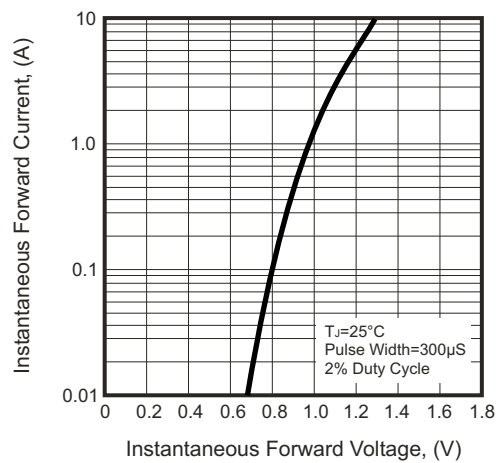
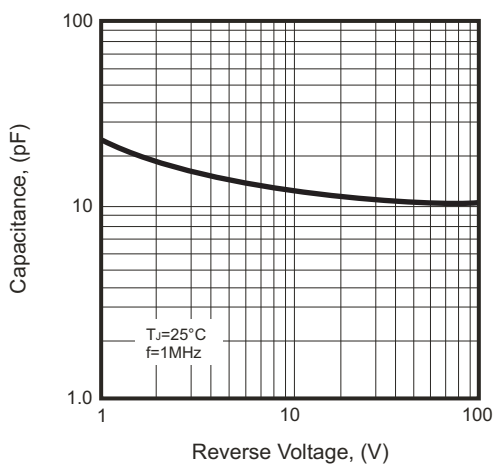
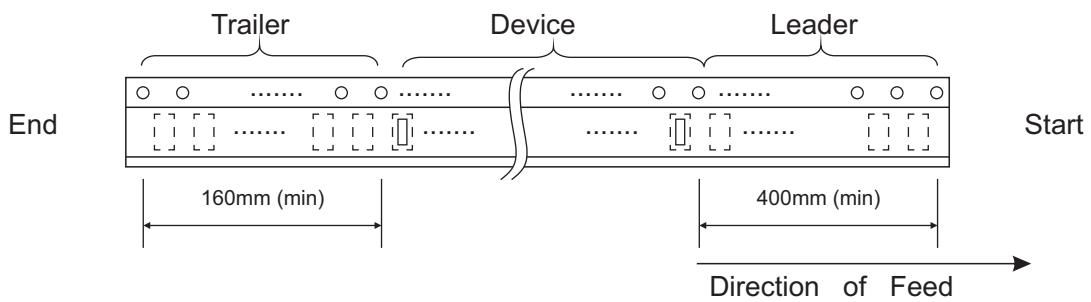
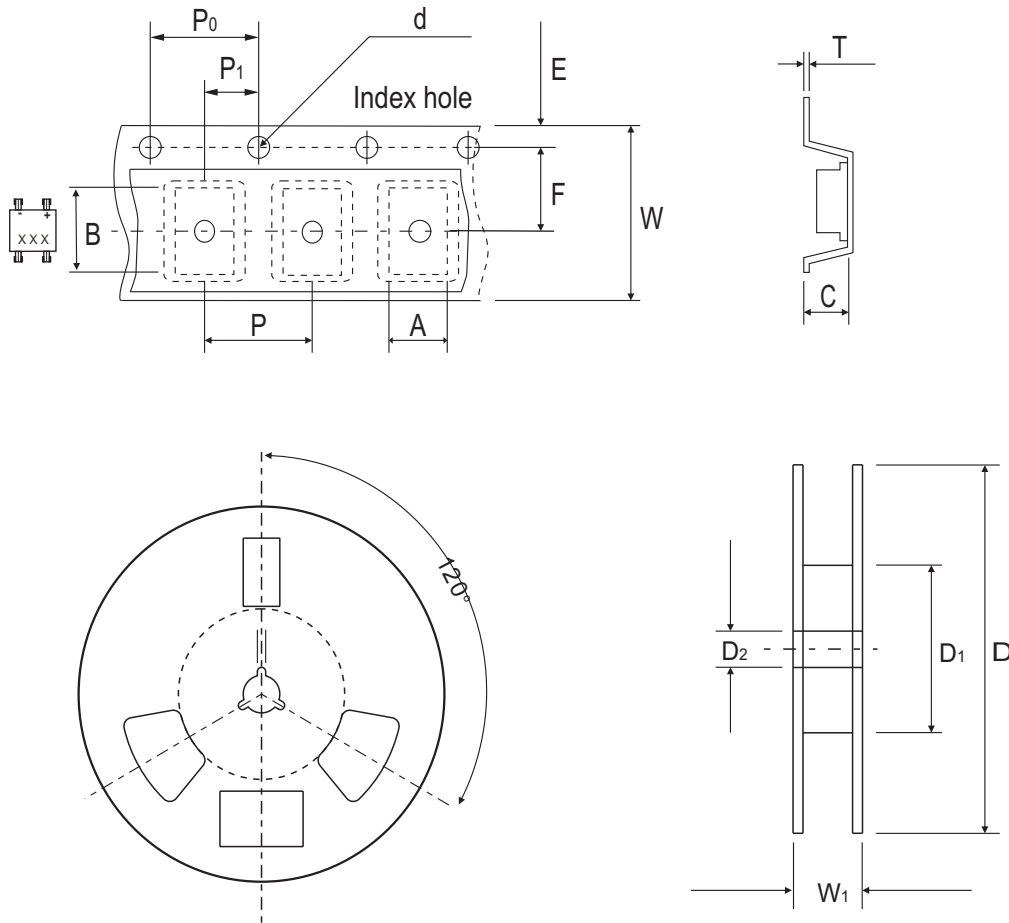


Fig.5 - Typical Junction Capacitance



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Reel Taping Specification



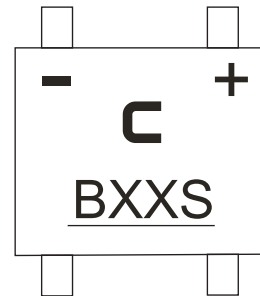
MBS	SYMBOL	A	B	C	d	D	D ₁	D ₂
	(mm)	4.90 ± 0.10	7.24 ± 0.10	3.33 ± 0.10	1.55 ± 0.05	330	50.0 MIN.	13.00 ± 0.20
	(inch)	0.193 ± 0.004	0.285 ± 0.004	0.131 ± 0.004	0.061 ± 0.002	13	1.969 MIN.	0.512 ± 0.008

MBS	SYMBOL	E	F	P	P ₀	P ₁	T	W	W ₁
	(mm)	1.75 ± 0.10	5.50 ± 0.05	8.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	0.30	12.00 ± 0.30	12.00~14.40
	(inch)	0.069 ± 0.004	0.217 ± 0.002	0.315 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.012	0.472 ± 0.012	0.472~0.657

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Marking Code

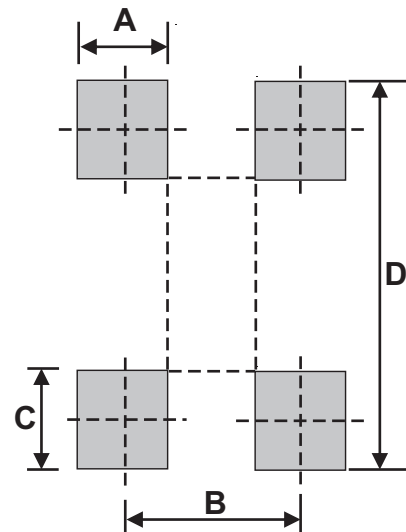
Part Number	Marking code
B05S-HF	B05S
B1S-HF	B1S
B2S-HF	B2S
B4S-HF	B4S
B6S-HF	B6S
B8S-HF	B8S
B10S-HF	B10S



X / XX = Product type marking code

Suggested PAD Layout

SIZE	MBS	
	(mm)	(inch)
A	0.82MIN	0.032MIN
B	2.55REF	0.100REF
C	0.92MIN	0.036MIN
D	7.00MAX	0.276MAX



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
MBS	3,000	13

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