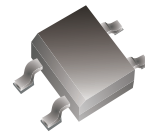


ABS05-HF Thru. ABS10-HF

Reverse Voltage: 50 to 1000 Volts

Forward Current: 0.8 A

RoHS Device

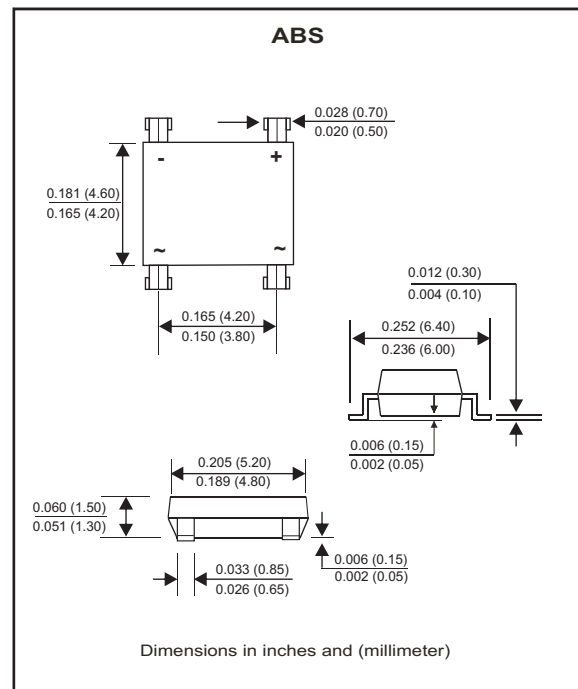


Features

- Halogen free.
- Rating to 1000V PRV.
- Ideal for printed circuit board.
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product.
- Small size, simple installation
- High surge current capability
- Pb free product.

Mechanical data

- Polarity: Symbol molded on body.
- 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	ABS05-HF	ABS1-HF	ABS2-HF	ABS4-HF	ABS6-HF	ABS8-HF	ABS10-HF	Unit
	Marking	ABS05	ABS1	ABS2	ABS4	ABS6	ABS8	ABS10	
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
Maximum 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 Thermal Resistance (Note 3)	$R_{\theta JA}$	80							$^\circ\text{C/W}$
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. Thermal resistance: Junction to Ambient.

SMD Glass Passivated Bridge Rectifiers



SMD Diodes Specialist

RATING AND CHARACTERISTIC CURVES (ABS05-HF thru ABS10-HF)

Fig.1-Forward Current Derating Curve

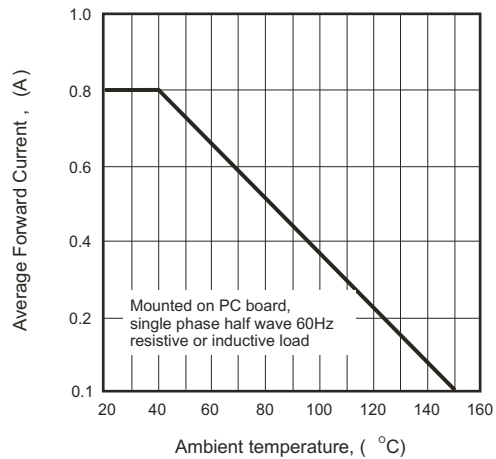


Fig.2-Maximum Non-Repetitive Surge Current

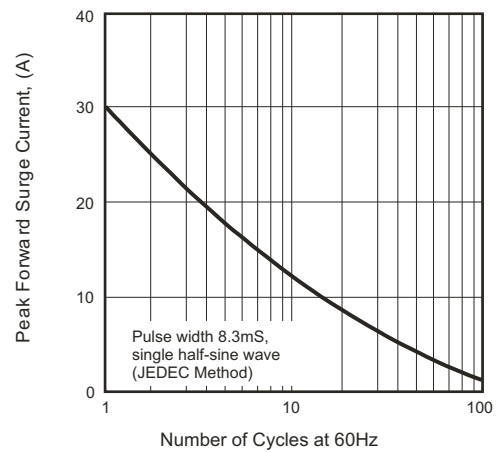


Fig.3-Typical Reverse Characteristics

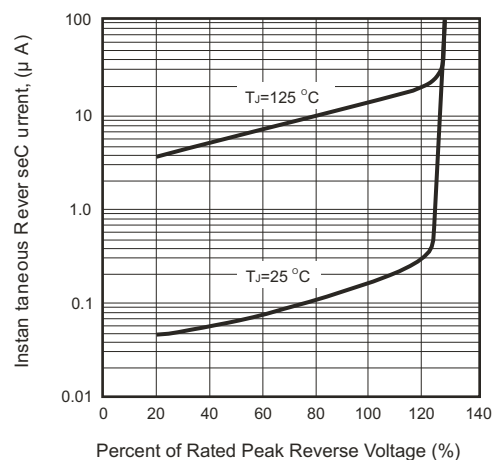
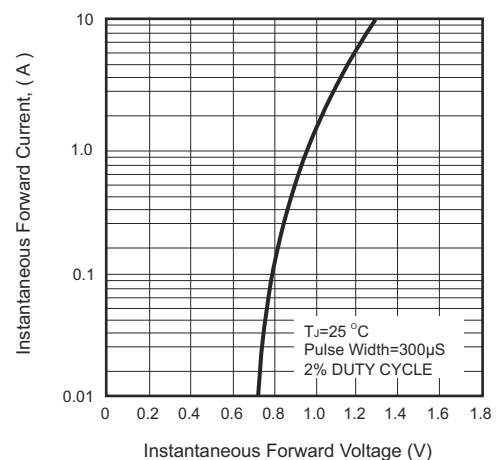
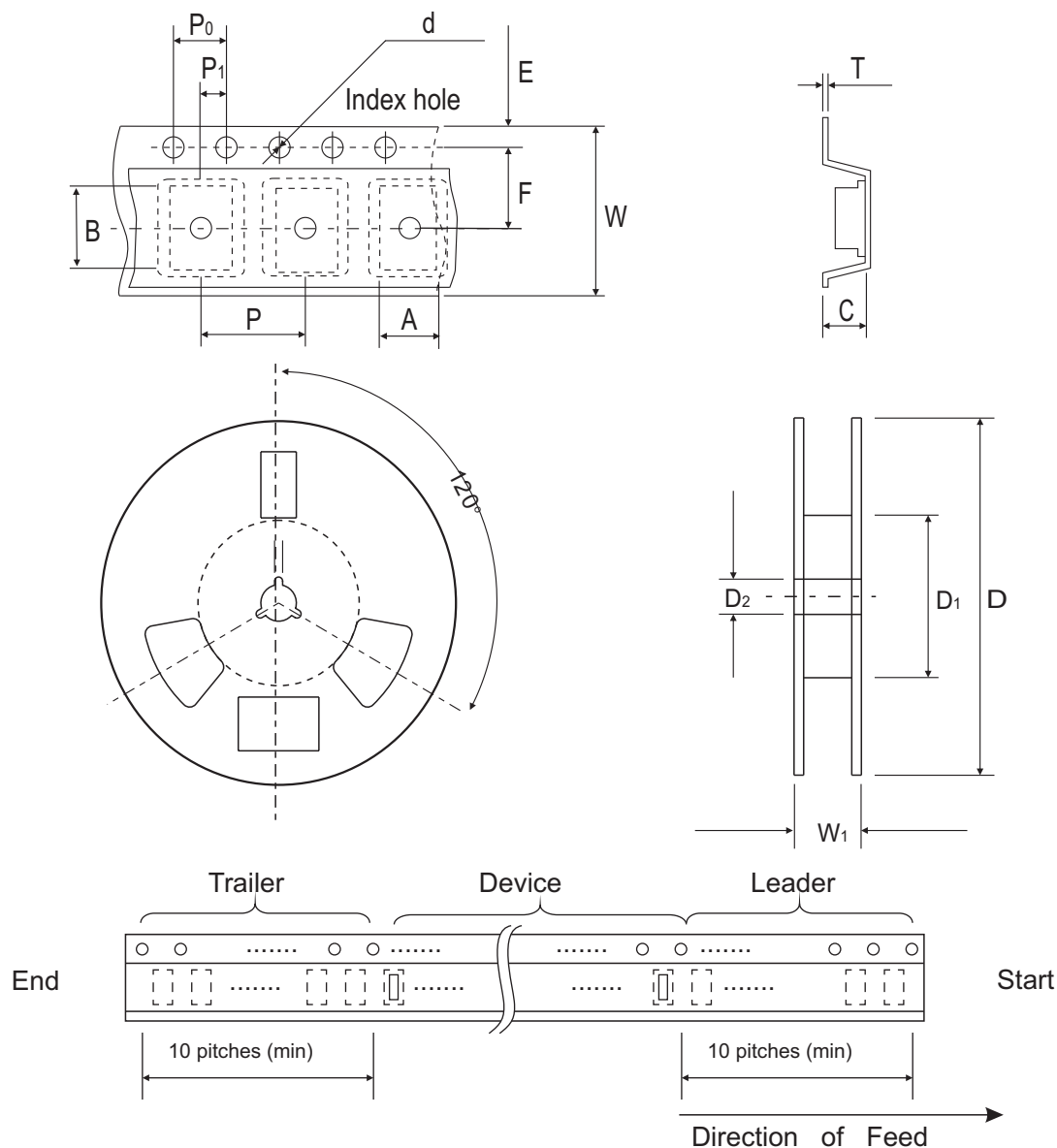


Fig.4-Typical Forward Characteristics



Reel Taping Specification

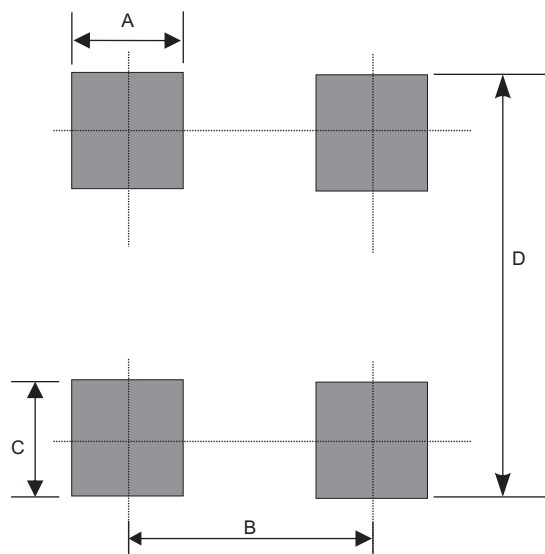


ABS	SYMBOL	A	B	C	d	D	D ₁	D ₂
	(mm)	8.64 ± 0.10	10.41 ± 0.10	3.81 ± 0.10	1.55 ± 0.10	330	50.0 Min	13.0 ± 0.20
	(inch)	0.340 ± 0.004	0.409 ± 0.004	0.150 ± 0.004	0.061 ± 0.004	13.00	1.969 Min	0.512 ± 0.008

ABS	SYMBOL	E	F	P	P ₀	P ₁	W	W ₁
	(mm)	1.75 ± 0.10	7.50 ± 0.05	12.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	16.0 ± 0.30	16.00~18.40
	(inch)	0.069 ± 0.004	0.295 ± 0.002	0.472 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.630 ± 0.012	0.630~0.724

Suggested PAD Layout

SIZE	ABS	
	(mm)	(inch)
A	1.20 Min	0.047 Min
B	5.21 REF	0.205 REF
C	1.52 Min	0.060 Min
D	8.50 Max	0.335 Max



Standard Package

Case Type	Reel	
	Qty per Reel	Reel Size
	(Pcs)	(inch)
ABS	5000	13

Case Type	Tube			
	Pcs / Tube	Kpcs / Box	Box / Carton	Tube Size
ABS	50	5	6	2.4mm