PECLERS®

ABS05 THRU ABS10

MINIATURE GLASS PASSIVATED SINGLE-PHASE SURFACE MOUNT BRIDGE RECTIFIER

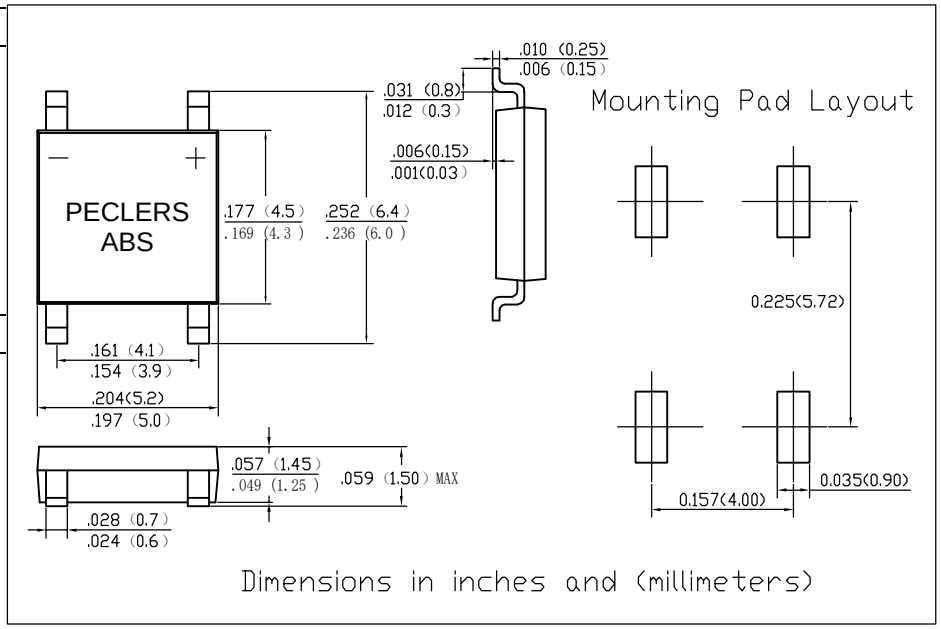
REVERSE VOLTAGE: **50 to 1000 VOLTS**
FORWARD CURRENT: **1.0 AMPERE**

FEATURES

· Surge overload rating: 35 amperes peak
· Ideal for printed circuit board
· Plastic material has Underwriters Laboratory Flammability Classification 94V-0
· Low leakage
· Reliable low cost construction utilizing molded

MECHANICAL DATA

Case: Molded plastic, ABS
Epoxy: UL 94V-O rate flame retardant
Terminals: Leads solderable per MIL-STD-202, method 208 guaranteed
Mounting position: Any



Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60H_Z, resistive or inductive load.
For capacitive load, derate current by 20%.

	Symbols	*ABS05*	*ABS1*	*ABS2*	*ABS4*	*ABS6*	*ABS8*	*ABS10*	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	**Volts**
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	**Volts**
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	**Volts**
Maximum Average Forward Rectified Current (see Fig. 1) on glass-epoxy P.C.B (Note 2)	$I_{(AV)}$	0.8							**Amp**
on aluminum substrate (Note 3)		1.0							
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	35							**Amp**
Maximum Forward Voltage at 1.0A DC and 25℃	V_F	1.10							**Volts**
Maximum Reverse Current at T_A=25℃	I_R	5.0							**uAmp**
at Rated DC Blocking Voltage T_A=125℃		150							
Typical Junction Capacitance (Note 1)	C_J	13							**pF**
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	80							**℃/W**
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	62.5							**℃/W**
Operating and Storage Temperature Range	T_J, Tstg	-55 to +150							**℃**

NOTES:

1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.
2- On glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3mm) pads
3- On aluminum substrate P.C.B. with an area of 0.8" x 0.8" (20 x 20mm) mounted on 0.05 x 0.05" (1.3 x 1.3mm) solder pad

RATINGS AND CHARACTERISTIC CURVES