

SCHOTTKY BRIDGE RECTIFIER

Reverse Voltage - 40 to 200 Volts

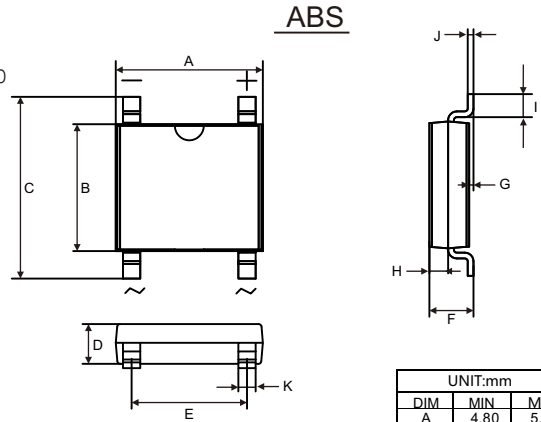
Forward Current - 2.0Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHS 2011/65/EU

MECHANICAL DATA

- Case: ABS molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750,method 2026
- Mounting Position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load,derate by 20%.)

		Symbols	ABS24K	ABS26K	ABS28K	ABS210K	ABS215K	ABS220K	Units
Maximum repetitive peak reverse voltage		V _{RRM}	40	60	80	100	150	200	Volts
Maximum RMS voltage		V _{RMS}	28	42	56	70	105	140	Volts
Maximum DC blocking voltage		V _{DC}	40	60	80	100	150	200	Volts
Maximum average forward rectified current		I(AV)	2.0						Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	50.0						Amps
Maximum instantaneous forward voltage at 2.0 A(Note 1)		V _F	0.55	0.70	0.85		0.95		Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T _A =25°C	I _R	500		50			μA	
	T _A =125°C		50		10			mA	
Rating for fusing (t<8.3ms)		I ² t	10.37						A ² s
Typical thermal resistance(Note 2)		R _{θJA} R _{θJC}	62 25						°C/W
Operating junction temperature range		T _J	-55 to+150						°C
Storage temperature range		T _{STG}	-55 to+150						°C

Notes: 1.Pulse test: 300 μs pulse width,1% duty cycle

2.Thermal resistance junction to ambient, on FR-4 P. C. B Board

RATINGS AND CHARACTERISTIC CURVES ABS24K THRU ABS220K

FIG.1-FORWARD CURRENT DERATING CURVE

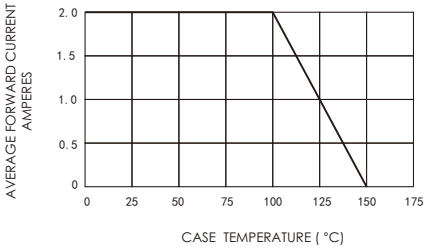


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

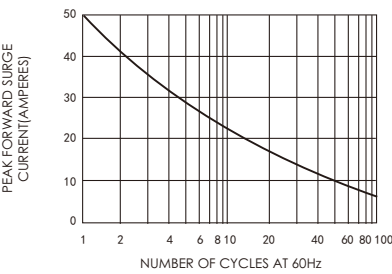


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

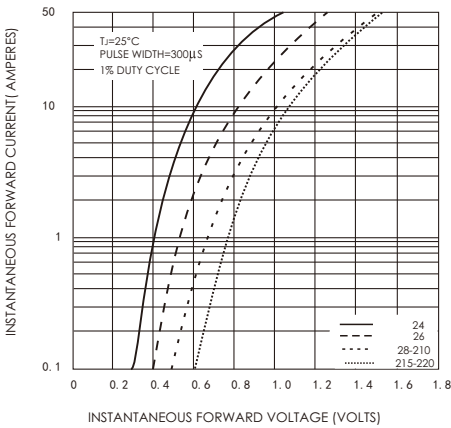
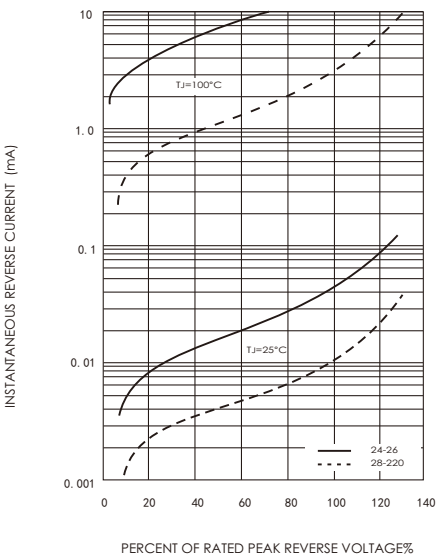
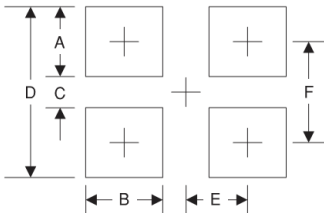


FIG.4-TYPICAL REVERSE CHARACTERISTICS



SUGGESTED PAD LAYOUT



Symbol	Unit (mm)	Unit (inch)
A	1.5	0.059
B	0.9	0.035
C	4.22	0.166
D	7.22	0.284
E	2.05	0.081
F	5.72	0.225