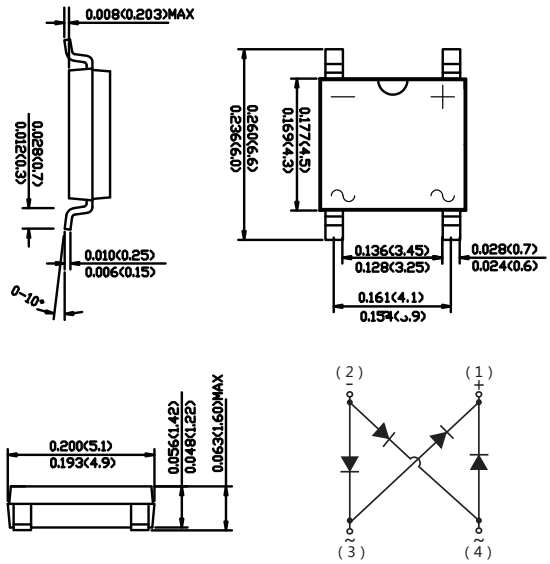
JXND ELECTRONICS CO.,LTD

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS AB24S THRU AB220S

Features

1. Ideal for printed circuit board
2. Reliable low cost construction utilizing molded plastic technique
3. High temperature soldering guaranteed: 260°/10 seconds at 5 lbs., (2.3kg) tension
4. Small size, simple installation
5. High surge current capability

ABS



Dimensions in inches and (millimeters)

Mechanical Data

Case : JEDEC ABS Molded plastic body
Terminals : Solder plated, solderable per MIL-STD-750,Method 2026
Polarity : Polarity symbol marking on body
Mounting Position : Any

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unlss otherwise specified. Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Parameter	SYMBOLS	AB24S	AB26S	AB28S	AB210S	AB220S	UNITS
Marking Code		AB24S	AB26S	AB28S	AB210S	AB220S	
Maximum repetitive peak reverse voltage	V_{RRM}	40	60	80	100	200	V
Maximum RMS voltage	V_{RMS}	28	42	56	70	140	V
Maximum DC blocking voltage	V_{DC}	40	60	80	100	200	V
Maximum average forward rectified current	$I_{F(AV)}$	2.0					A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50		40			A
Maximum instantaneous forward voltage drop per leg at 2A	V_F	0.55	0.70	0.85			V
Maximum DC reverse current T_A=25°C at rated DC blocking voltage T_A=100°C	I_R	0.5 10			0.3 5		mA mA
Typical thermal resistance	$R\theta_{JA}$	70					°C/W
Typical junction capacitance	C_j	220	80				pF
Operating temperature range	T_J	-55 to +125					°C
storage temperature range	T_{STG}	-55 to +150					°C

NOTE:1.Measured at 1MHz and applied reverse voltage of 4 V D.C.
2.Mounted on glass epoxy P C board with 4 X (5X5mm) copper pad.

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Ratings And Characteristic Curves

Fig.1 Forward Current Derating Curve

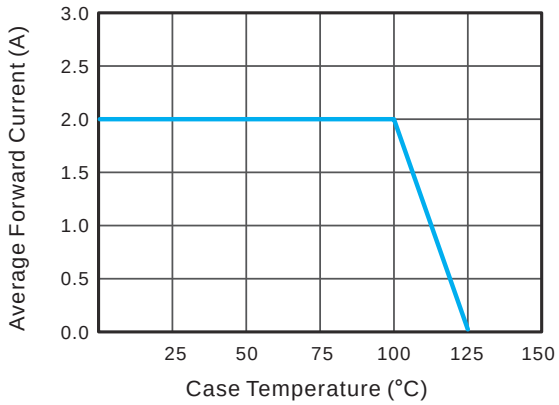


Fig.2 Typical Reverse Characteristics

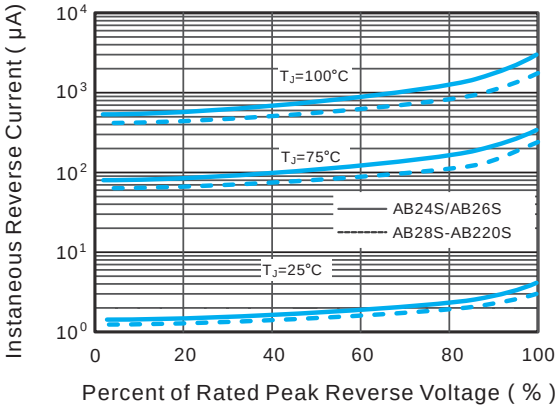


Fig.3 Typical Forward Characteristic

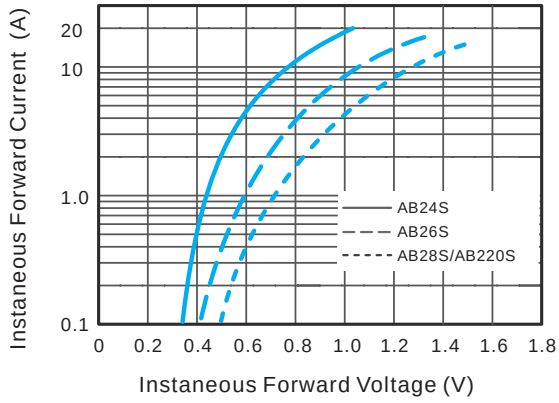


Fig.4 Typical Junction Capacitance

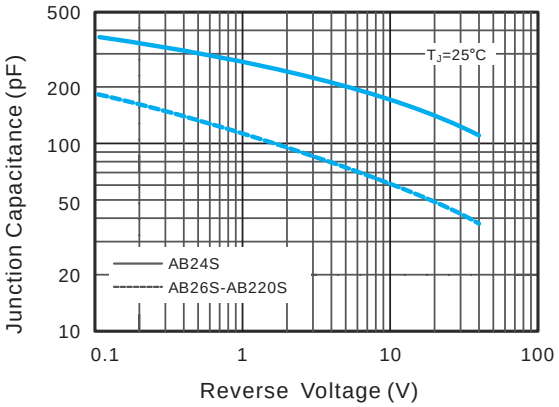
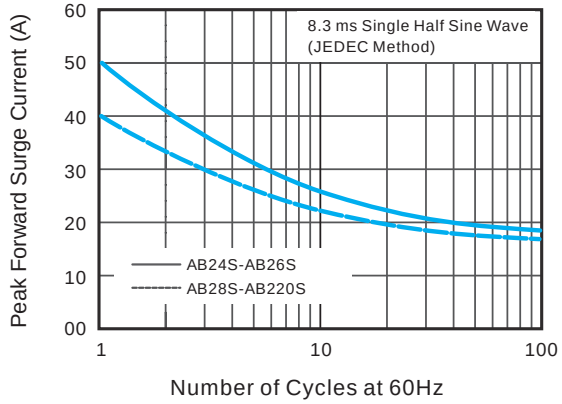
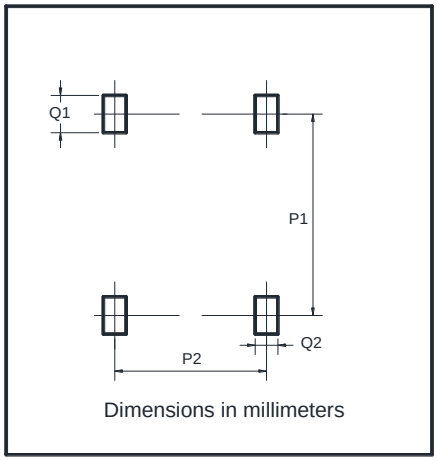


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



Suggested Pad Layout



Dimensions in millimeters

Dim	Min
P1	5.72
P2	4.00
Q1	1.00
Q2	0.90