

AB14S THRU AB120S

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Voltage Range - 40 to 200 Volts Current - 1.0 Ampere



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

MECHANICAL DATA

Case: Molded plastic body Terminals: Plated leads solderable per MIL-STD-750, Method 2026 Polarity: Polarity symbols marked on case Mounting Position: Any

Dimensions in inches and (millimeters)

ABS

0.028(0.7)

0.136(3.45) 0.161(4.1)

0.200(5.1)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

0.028(0.7)

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load derate current by 20%.

TWGMC Catalog Number	SYMBOLS	AB14S	AB16S	AB18S	AB110S	AB120S	UNITS
Maximum repetitive peak reverse voltage	Vrrm	40	60	80	100	200	VOLTS
Maximum RMS voltage	Vrms	28	42	56	70	140	VOLTS
Maximum DC blocking voltage	VDC	40	60	80	100	200	VOLTS
Maximum average forward rectified current	lf(AV)	1.0					Amps
Peak forward surge current,							
8.3ms single half sine-wave superimposed on	IFSM	IFSM 40		30			Amps
rated load (JEDEC Method)							
Maximum instantaneous forward voltage drop	Vf	0.55	0.70	0.85			Volts
per leg at 1A	VF	0.55 0.70		0.65			VOILS
Maximum DC reverse current Ta=25°C	IR	0.3		0.2	2	0.1	mA
at rated DC blocking voltage Ta=100°C	IR	10		5		2	mA
Typical junction capacitance	Cj	110		80			pF
Typical thermal resistance	Rθja	95					°C/W
Operating temperature range	TJ	-55 to +125					°C
storage temperature range	Тѕтс	-55 to +150					°C

NOTE:1.Measured at 1MHz and applied reverse voltage of 4 V D.C.

2.Mounted on glass epoxy PC board with 4 X (5X5mm) copper pad.

RATINGS AND CHARACTERISTIC CURVES AB14S THRU AB120S

Fig.1 Forward Current Derating Curve

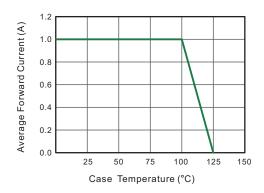
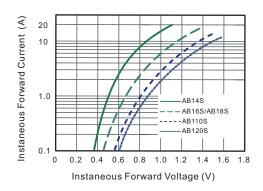


Fig.3 Typical Forward Characteristic



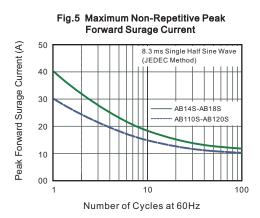


Fig.2 Typical Reverse Characteristics

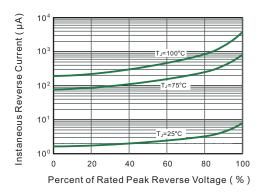
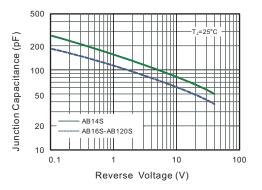
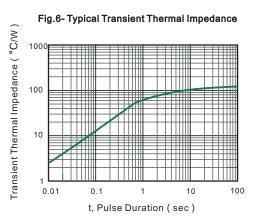


Fig.4 Typical Junction Capacitance





www.tw-gmc.com