AB2F THRU AB10F

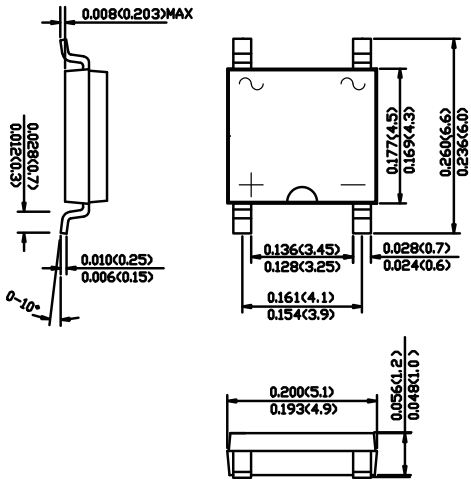
Voltage Range - 200 to 1000 Volts Current - 0.8/1.0 Ampere

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Features

ABF RoHS COMPLIANT

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



Dimensions in inches and (millimeters)

Mechanical Data

Case : JEDEC ABF Molded plastic body
Terminals : Solder plated, solderable per MIL-STD-750,Method 2026
Polarity : Polarity symbol marking on body
Mounting Position : Any
Weight : 0.0029 ounce, 0.082 grams

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwisespecified.

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

Parameter	SYMBOLS	AB2F	AB4F	AB6F	AB8F	AB10F	UNITS
Marking Code		MDD AB2F	MDD AB4F	MDD AB6F	MDD AB8F	MDD AB10F	
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	200	400	600	800	1000	V
Maximum average forward rectified current at Tc=125°C	$I_{F(AV)}$	0.8 1.0					A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30					A
Maximum instantaneous forward voltage drop per leg at 1A	V_F	1.1					V
Maximum DC reverse current T_A=25°C at rated DC blocking voltage T_A=100°C	I_R	5 50					uA
Typical thermal resistance(NOTE 1)	C_J	13					pF
Typical thermal resistance(NOTE 2)	$R\theta_{JL}$ $R\theta_{JA}$	75 20					°C/W
Operating temperature range	T_J	-55 to +150					°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 PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

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Ratings And Characteristic Curves

FIG.1 TYPICAL FORWARD CHARACTERISTICS

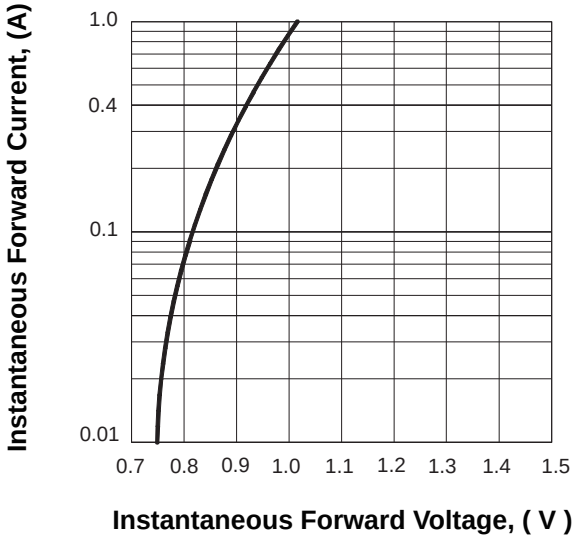


FIG.2 FORWARD DERATING CURVE

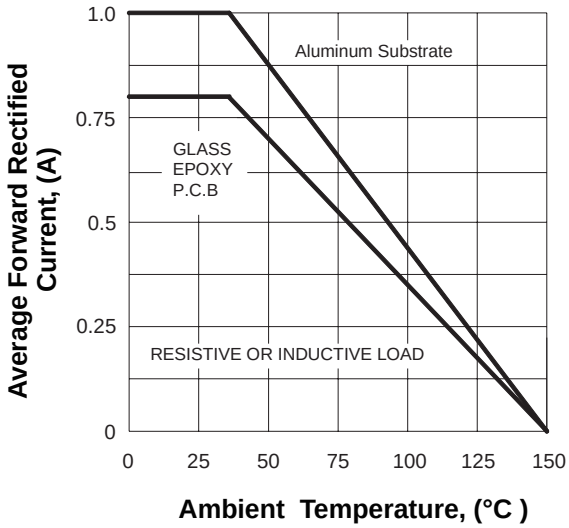


FIG.3 TYPICAL REVERSE CHARACTERISTICS

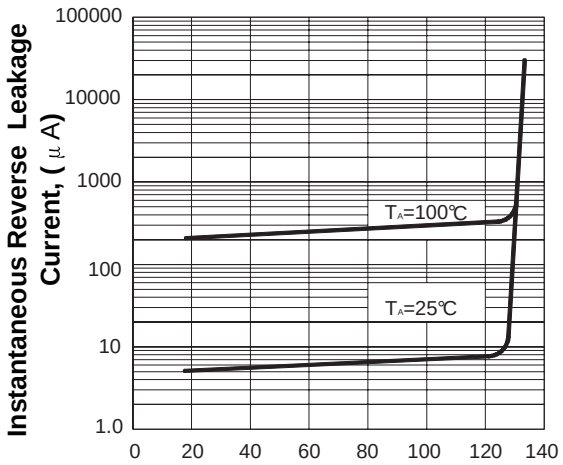
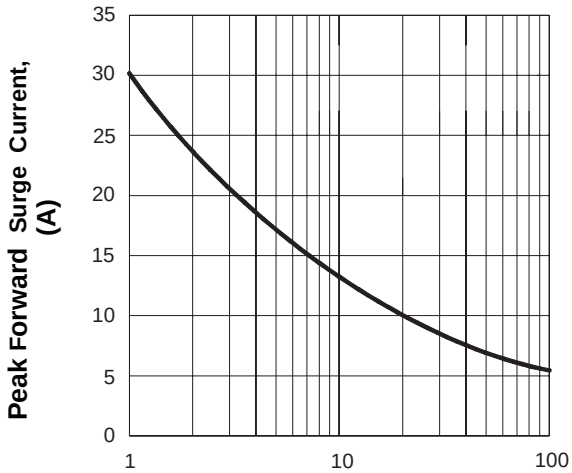


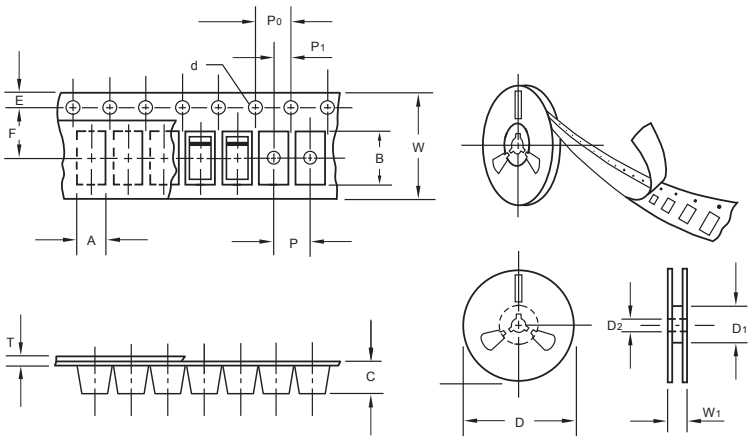
FIG.4 PEAK FORWARD SURGE CURRENT



The curve above is for reference only.

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Packing information



unit:mm

Item	Symbol	Tolerance	ABF
Carrier width	A	0.1	5.45
Carrier length	B	0.1	7.00
Carrier depth	C	0.1	1.60
Sprocket hole	d	0.05	1.55
13" Reel outside diameter	D	2.0	330.00
13" Reel inner diameter	D_1	min	50.00
Feed hole diameter	D_2	0.5	13.00
Sprocket hole position	E	0.1	1.75
Punch hole position	F	0.1	5.50
Punch hole pitch	P	0.1	8.00
Sprocket hole pitch	P_0	0.1	4.00
Embossment center	P_1	0.1	2.00
Overall tape thickness	T	0.1	0.25
Tape width	W	0.3	12.00
Reel width	W_1	1.0	12.40

Note:Devices are packed in accor dance with EIA standar RS-481-A and specifications listed above.

Reel packing

PACKAGE	REEL SIZE	REEL (pcs)	COMPONENT SPACING (mm)	BOX (pcs)	INNER BOX (mm)	REEL DIA, (mm)	CARTON SIZE (mm)	CARTON (pcs)	APPROX. GROSS WEIGHT (kg)
ABF	13"	3,000	4.0	6000	xxx*XXX*XX	330	360*360*360	48000	11.0

Suggested Pad Layout

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