

ABS05 THRU ABS10

CURRENT 1.0 A
VOLTAGE 50 to 1000 V

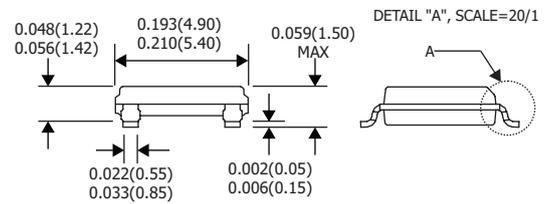
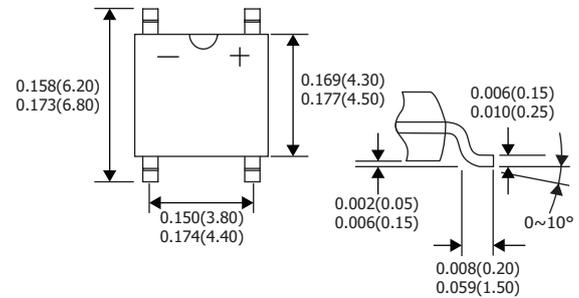
Features

- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Surge overload ratings to 30 amperes
- Ideal for printed circuit board application
- High temperature soldering guaranteed 260°C/5 seconds at 5 lbs (2.3kg) tension

Mechanical Data

- Case : Molded plastic
- Terminals : Plated leads solderable per MIL-STD-202, Method 208
- Polarity : Marked on body
- Mounting Position : Any

ABS



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

(Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%)

Items	Symbols	ABS05	ABS1	ABS2	ABS4	ABS6	ABS8	ABS10	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at T _A =40°C	I _(AV)	1.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30							A
Rating for fusing (t<8.3ms)	I ² T	4.0							A ² sec
Maximum instantaneous forward voltage drop per leg at 1.0A	V _F	1.1							V
Maximum DC reverse current at rated DC blocking voltage per element	T _A =25°C	10							μA
	T _A =125°C	500							
Typical thermal resistance per element ⁽¹⁾	R _{θJA}	80							°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150							°C

Notes:

(1) Thermal resistance from Junction to Ambient on P.C.board mounting.

RATINGS AND CHARACTERISTIC ABS05 THRU ABS10

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

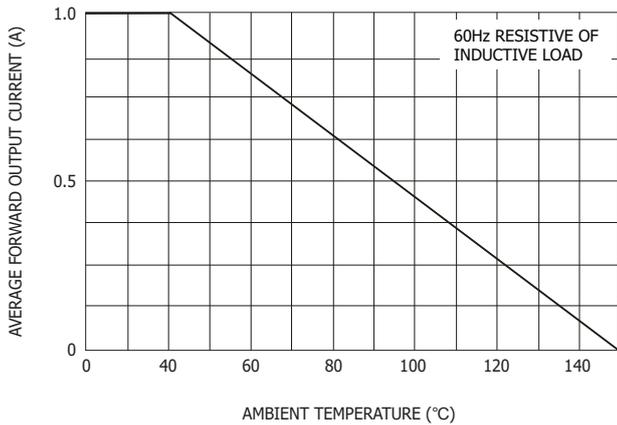


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

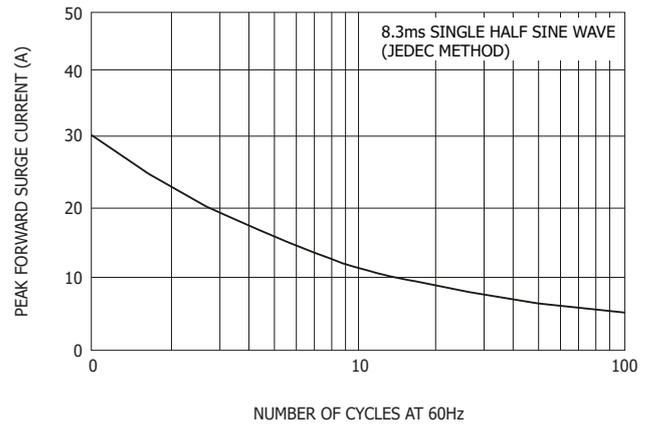


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

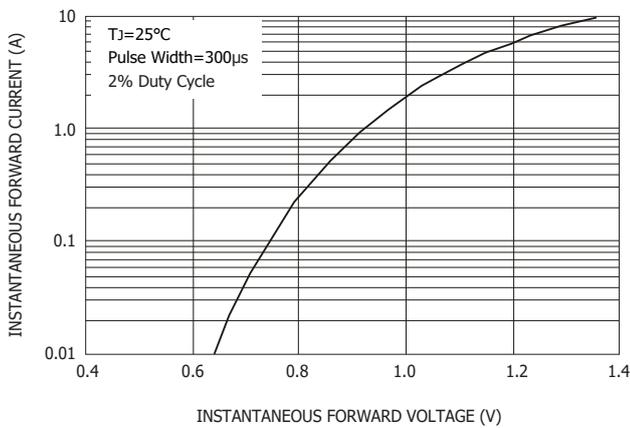


FIG.4-TYPICAL REVERSE CHARACTERISTICS

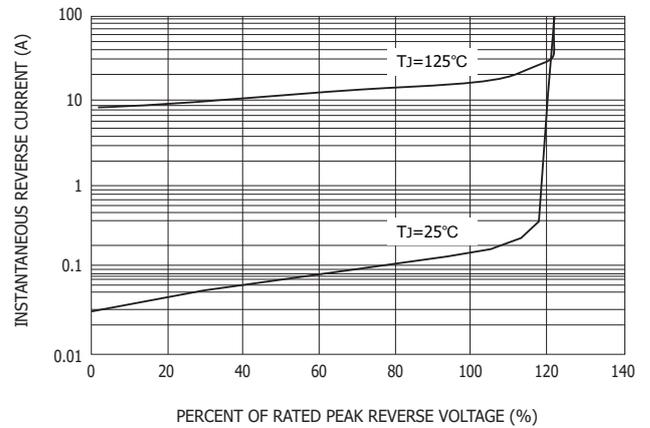


FIG.5-TYPICAL JUNCTION CAPACITANCE

