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PRIMARY CHARACTERISTICS	
V_{RRM}	50V,100V,200V,400V 600V,800V,1000V
I_o	1.0A
I^2t	6.6A ² S
V_F	1.1V
$T_{J,Max}$	150°C

FEATURES

- Plastic material has Underwriters Laboratory
- Flammability Classification 94V-0
- High surge overload rating of 50 Amperes peak
- Ideal for printed circuit board
- Glass passivated chip junction
- Moisture Sensitivity Level 1

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	UNITS
Marking Code		DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at TA = 40℃	I _O	1							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	50							Amps
Rating for fusing （t<8.3ms）	I ² t	6.6							A ² S
Typical Thermal Resistance (Note 2)	R θ _{JA}	40							℃/W
	R θ _{JL}	15							
Typical Junction Capacitance (Note 1)	C _J	25							pF
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 to + 150							℃

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	UNITS
Element at 1.0A DC Maximum Forward Voltage Drop per Bridge	V_F	1.1							Volts
Maximum Reverse Current at rated	I_R	5							uAmps
DC Blocking Voltage per element		0.5							mAmps

NOTE: 1.Measured at 1 MHZ and applied reverse voltage of 4.0 VDC

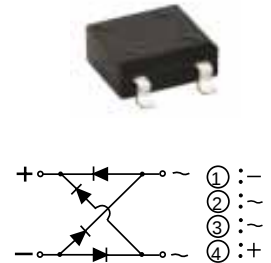
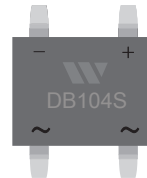
2.Units mounted on P.C.B.with 0.5x0.5" (13x13mm) copper pads.

DB-S PACKAGE

Marking Code :

DB101S~DB107S

Ex :DB104S



MECHANICAL DATA

- Case : Molded plastic,DB-S
- Polarity : Shown above
- Terminals :Plated terminals, solderable per MIL-STD-750,Method 2026
- Epoxy : UL94-V0 rated flame retardant



RATINGS AND CHARACTERISTIC CURVES

Fig. 1 - Derating Curve Output Rectified Current

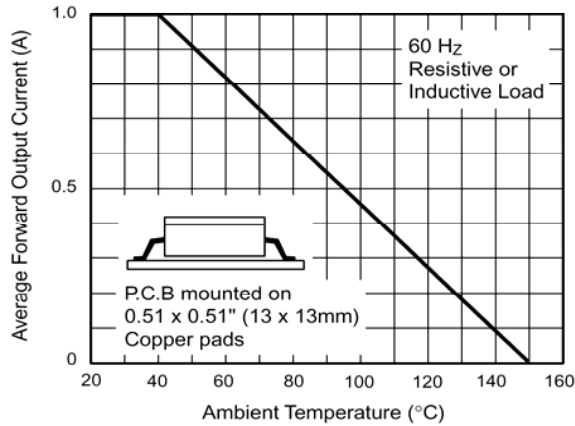


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg

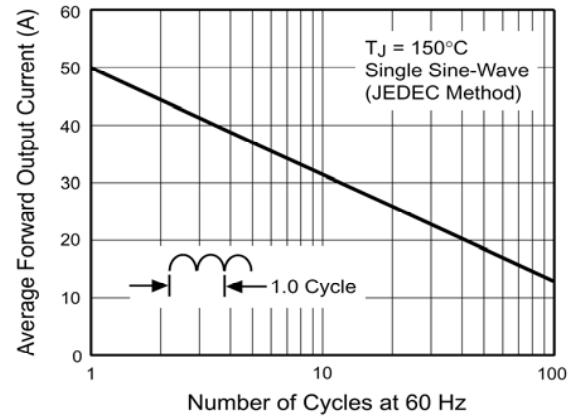


Fig. 3 - Typical Forward Characteristics Per Leg

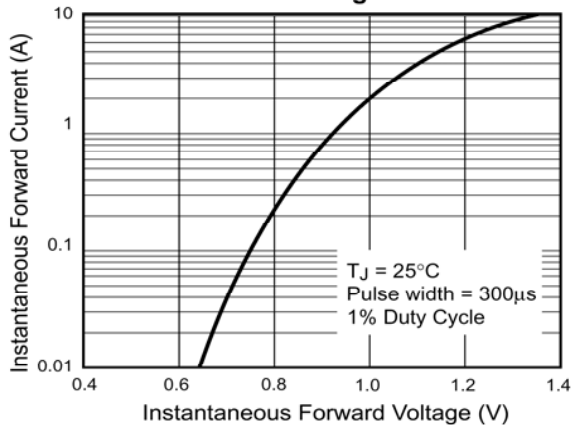


Fig. 4 - Typical Reverse Leakage Characteristics Per Leg

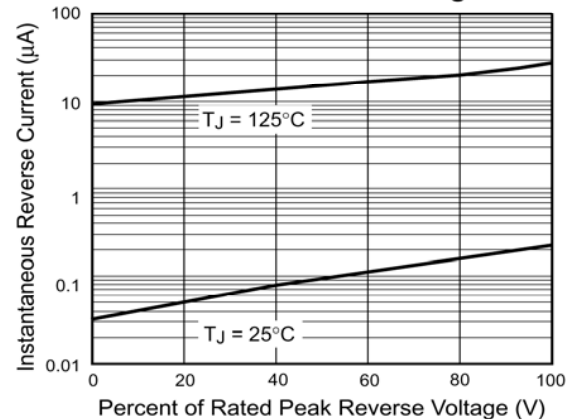


Fig. 5 - Typical Junction Capacitance Per Leg

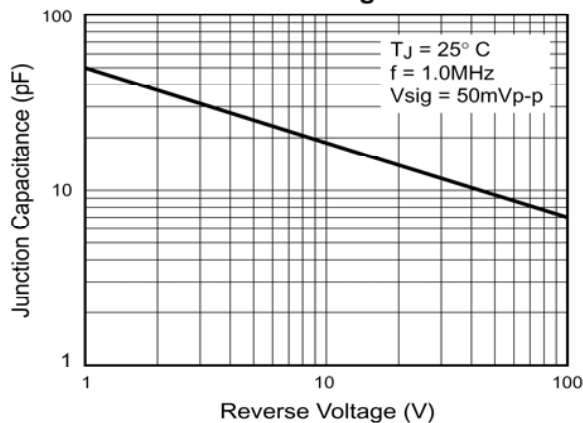
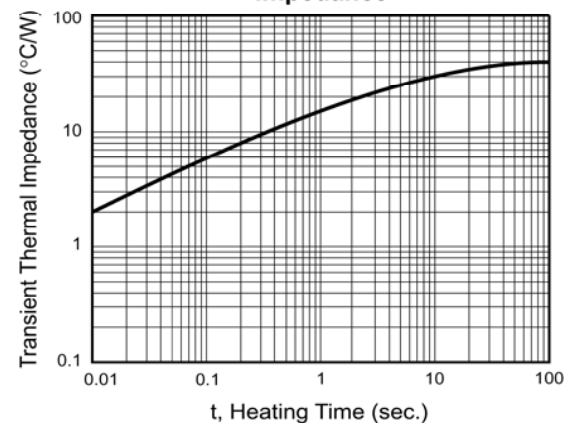


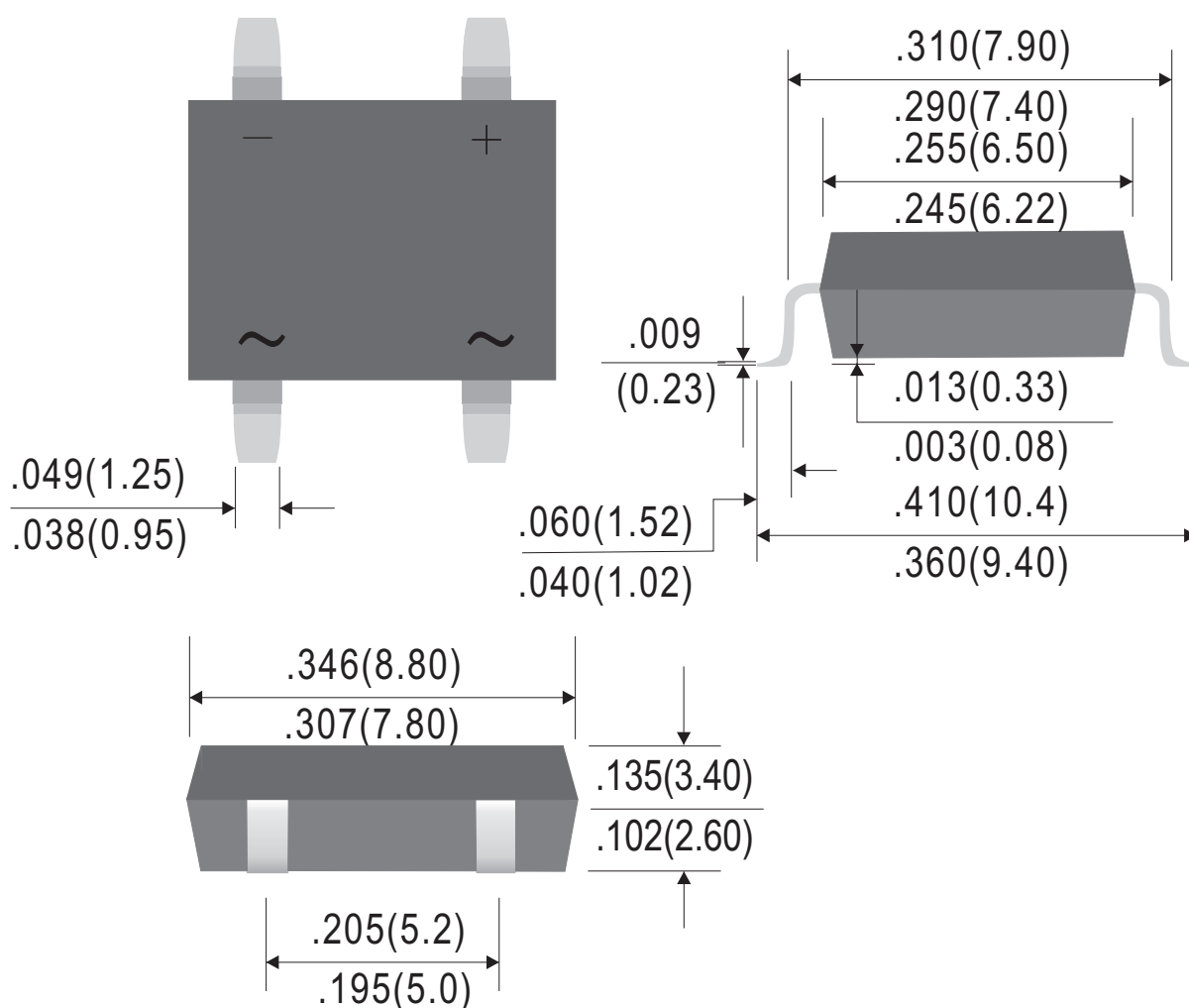
Fig. 6 - Typical Transient Thermal Impedance





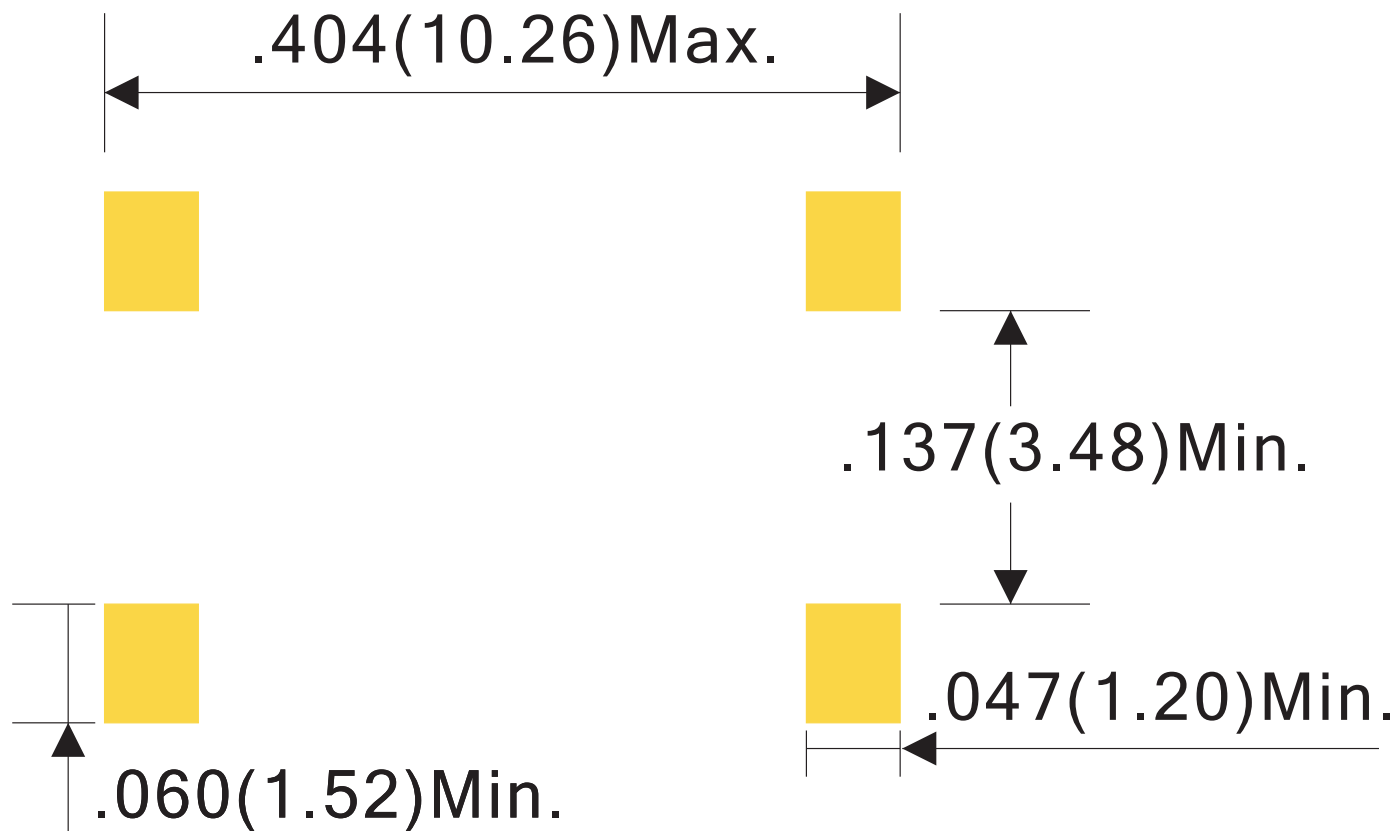
Outline Drawing

DB-S



Dimensions in inches and (millimeters)

Rev.C

Suggested Soldering Pad Layout	DB-S
 Dimensions in inches and (millimeters)	
RevA	

Ordering Information:

Device PN	Packing
Part Number -T ⁽¹⁾ G ⁽²⁾ -WS	Tape&Reel: 1 Kpcs/Reel

Note: (1) Packing code, Tape & Reel

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

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