

CURRENT 1.0 Ampere
 VOLTAGE RANG 50 to 1000 Volts

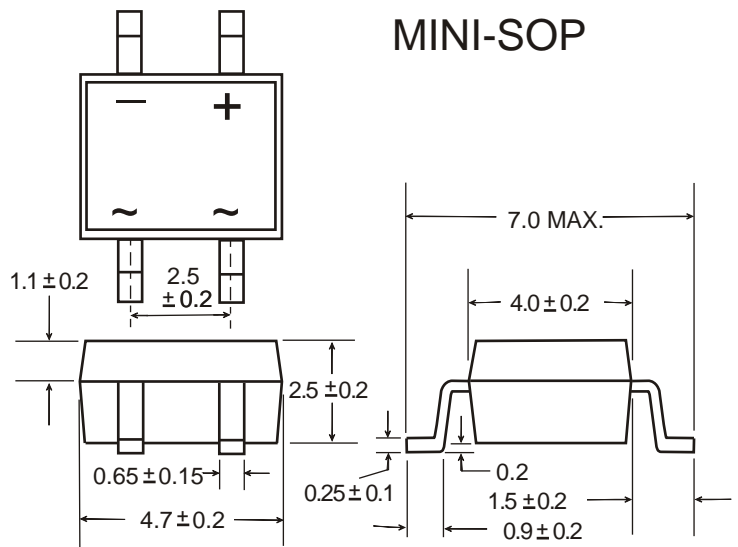
HD01 THRU HD10

Features

- This series is SGS listed under the Recognized Component Index, file number SZXEC1902259902
- Ideal for surface mount application
- The plastic material used carries Underwriters
- Laboratory flammability recognition 94V-0
Surge overload ratings to 30 amperes
- High temperature soldering guaranteed 265°C/10 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
 Weight: 0.0044 ounce, 0.125 grams (approx)



Dimensions in millimeters(1mm =0.0394")

Maximum Ratings & Thermal Characteristics

Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz.
 For Capacitive load derate current by 20%.

Parameter	Symbol	HD01	HD02	HD03	HD04	HD06	HD08	HD10	unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current at TA=40°C (*3)	IF(AV)	0.8*~1A							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	30							A
Rating for fusing (t<8.3ms)	I ² t	10							A ² sec
Typical thermal resistance per element (1)	ReJA	110							°C /W
Typical junction capacitance per element (2)	Cj	25.0							pF
Operating junction and storage temperature range	TJ, TSTG	-55 to + 150							°C

Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.
 For Capacitive load derate by 20 %.

Parameter	Symbol	HD01	HD02	HD03	HD04	HD06	HD08	HD10	Unit
Maximum instantaneous forward voltage drop per leg at 1A	VF	1.1							V
Maximum DC reverse current at rated DC blocking voltage per element <small>TA =25°C TA =125°C</small>	IR	10 500							μA

Notes: (1)Thermal resistance from Junction to Ambient on PC.board mounting.
 (2)Measured at 2.0MHz and applied reverse voltage of 4.0 volts.
 (3)R-load on aluminum substrate TA=25°C.

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Rating and Characteristic Curves (TA=25°C Unless otherwise noted)

Fig. 1 Derating Curve for Output Rectified Current

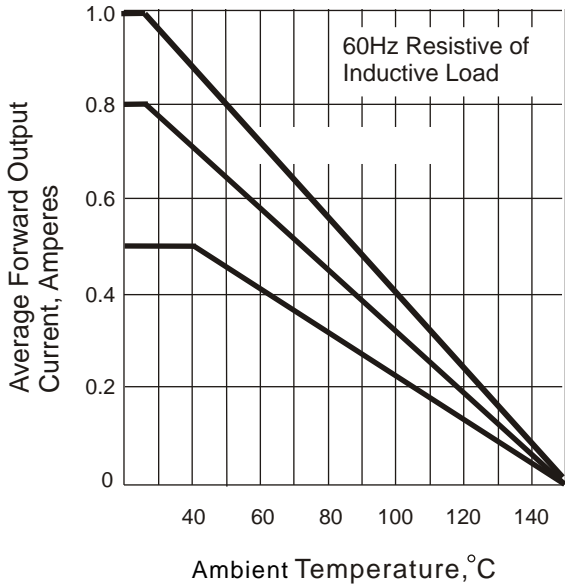


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

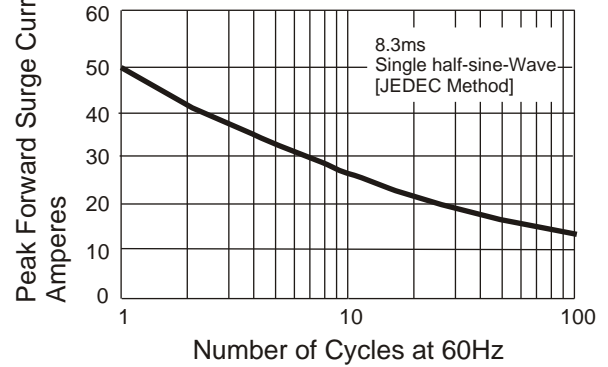


Fig. 3 Typical Instantaneous Forward Characteristics

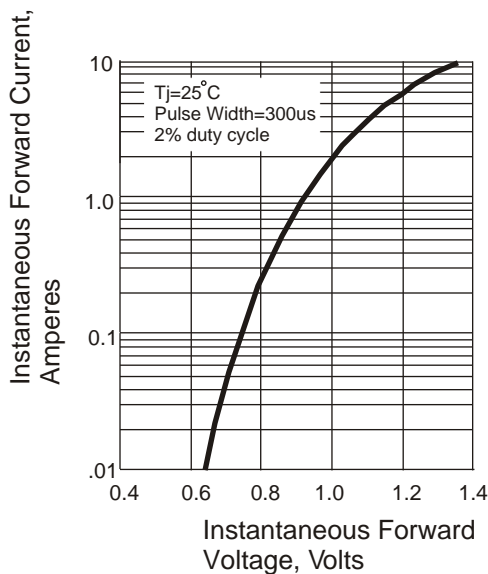


Fig. 4 Typical Revers Characteristics

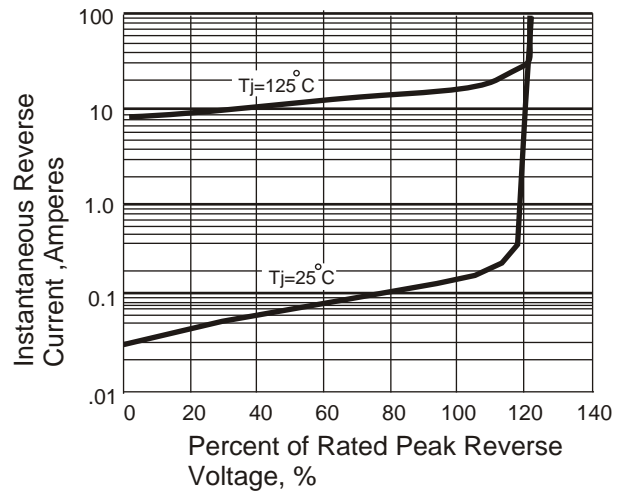


Fig. 5 Typical Junction Capacitance

