Spec. No. : HE9101-B Issued Date : 1996.03.27 Revised Date : 2000.05.01

Page No. : 1/2

H1N400X Series

General Purpose Rectifiers

Features

- High Reliability
- Low Cost
- Low Leakage
- Low forward voltage drop
- High Current Capability
- Glass Passivated Junction

Maximum Ratings & Electrical Characteristics

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

Ratings	Symbol	4001	4002	4004	4007	Unit
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	400	1000	V
Maximum RMS voltage	V _{RMS}	35	70	280	700	V
Maximum DC blocking voltage	V _{DC}	50	100	400	1000	V
Maximum average forward recitified current .375"(9.5mm) lead length (Ta=75°C)	I _O	1				А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30				А
Typical thermal resistance (Note2)	$R_{ hetaJA}$	50				°C/W
Typical junction capacitance (Note1)	CJ	30				pF
Operating & storage temperature Tj	T_{stg}	-50 to +175				°C
Maximum instantaceous forward voltage at 1.0A DC						V
Maximum DC reverse current at rated DC blocking voltage @Ta=25°C @Ta=100°C	I _R	5 50				uA
Maximum full load reverse current average full cycle .375"(9.5mm) lead at Tj=75°C		30				uA

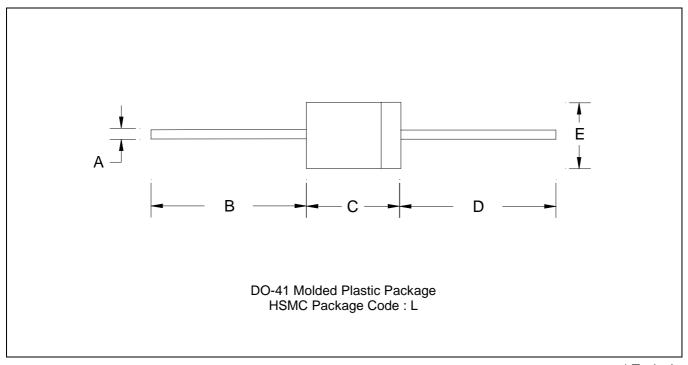
Note 1: Measured at 1MHz and applied reverse voltage of 4.0 volts.

Note 2: Thermal resistance from junction to ambient 9.5mm lead length.

Spec. No. : HE9101-B Issued Date : 1996.03.27 Revised Date : 2000.05.01

Page No. : 2/2

DO-41 Dimension



*:Typical

DIM	Inches		Millimeters		DIM	Inches		Millimeters	
	Min.	Max.	Min.	Max.	ואווט	Min.	Max.	Min.	Max.
Α	0.0280	0.0340	0.71	0.86	D	1.0000	-	25.40	-
В	1.0000	•	25.40	•	Е	0.0800	0.1070	2.00	2.70
С	0.1600	0.2050	4.10	5.20					

Notes: 1.Dimension and tolerance based on our Spec. dated May 28,1998.a

- 2. Controlling dimension : millimeters.
- 3. Maximum lead thickness includes lead finish thickness, and minimum lead thickness is the minimum thickness of base material.
- 4.If there is any question with packing specification or packing method, please contact your local HSMC sales office.

Material:

- Lead: 42 Alloy; solder plating
- Mold Compound: Epoxy resin family, flammability solid burning class:UL94V-0

Important Notice:

- All rights are reserved. Reproduction in whole or in part is prohibited without the prior written approval of HSMC.
- HSMC reserves the right to make changes to its products without notice.
- HSMC semiconductor products are not warranted to be suitable for use in Life-Support Applications, or systems.
- HSMC assumes no liability for any consequence of customer product design, infringement of patents, or application assistance.

Head Office And Factory :

- Head Office (Hi-Sincerity Microelectronics Corp.): 10F.,No. 61, Sec. 2, Chung-Shan N. Rd. Taipei Taiwan R.O.C. Tel: 886-2-25212056 Fax: 886-2-25632712, 25368454
- Factory 1: No. 38, Kuang Fu S. Rd., Fu-Kou Hsin-Chu Industrial Park Hsin-Chu Taiwan. R.O.C Tel: 886-3-5983621~5 Fax: 886-3-5982931
- Factory 2: No. 17-1, Ta-Tung Rd., Fu-Kou Hsin-Chu Industrial Park Hsin-Chu Taiwan. R.O.C

Tel: 886-3-5977061 Fax: 886-3-5979220