

HSR1040 THRU HSR10200

Reverse Voltage -40 to 200Volts Forward Current -10.0 Ampere

DO-201AD

Schottky Barrier Rectifier

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94-0
- Metal silicon junction, majority carrier conduction
- · low power loss, high efficiency
- · High forward surge current capability
- High temperature soldering guaranteed:260 °C/10seconds,
 0.375"(9.5mm) lead length,5lbs. (2.3kg) tension

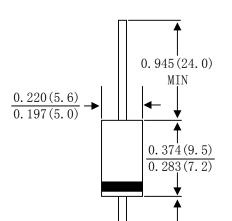
Mechanical Data

· Case: JEDEC DO-201AD molded plastic body

 Terminals: Plated leads solderable per MIL-STD-750, Method 2026

· Polarity: Color band denotes cathode end

• Mounting Position: Any



Dimensions in inches and (millimeters)

0.051(1.30)

0.045(1.15)

0.945 (24.0)

MIN

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

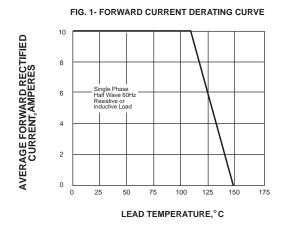
Single phase, half-wave 60Hz, resistive or inductive load, For capacitive load derate current by 20%.

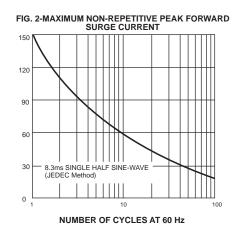
Type Number	SYMBOL	HSR 1040	HSR 1045		HSR 1060	HSR 1080	HSR 10100	HSR 10150	HSR 10200	Units
Maximum recurrent peak reverse voltage	V _{RM}	40	45	50	60	80	100	150	200	V
Maximum RMS voltage	V _{RMS}	28	32	35	42	57	70	105	140	V
Maximum DC blocking voltage	V _{DC}	40	45	50	60	80	100	150	200	V
Maximum average rectified output current 0.375"(9.5mm) lead length(see fig.1)	I _(AV)	10.0							А	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	İfsm	150.0							А	
Maximum instantaneous forward voltage at10.0A	VF	0.55		0.7	70 0.8		85	0.95		V
Maximum DC reverse current @TA=25°C	I_	0.3			0.1		0.05		mA	
At Rated DC blocking voltage @TA=100°C	lR	200.0			20.0		10.0			
Typical junction capacitance (Note 1)	Cj	550.0			400.0			pF		
Typical thermal resistance (Note 2)	RθJA	25.0							°C/W	
Operating junction temperature range	Tj	-55 to +150							$^{\circ}\mathbb{C}$	
Storage temperature range	Тѕтс	-55 to +150								$^{\circ}\mathbb{C}$

Note: 1. Measured at 1.0 MHz and applied reverse Voltage of 4.0V D.C

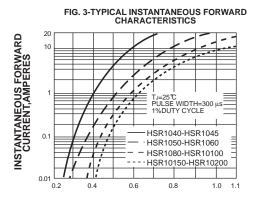
2. Thermal resistance from junction to ambient and from junction to lead at 0.375"(9.5mm) lead length, P.C.B. mounted.

RATINGS AND CHARACTERISTIC CURVES HSR1040 THRU HSR10200

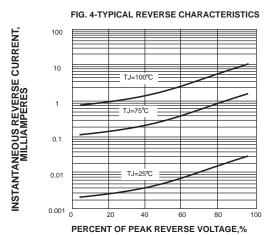


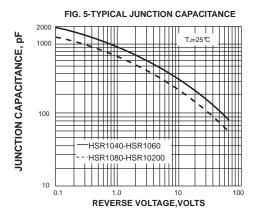


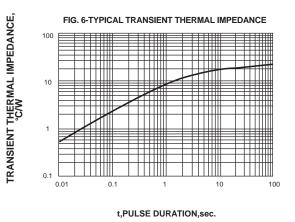
PEAK FORWARD SURGE CURRENT, AMPERES



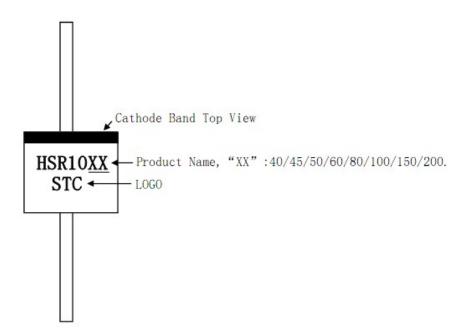
INSTANTANEOUS FORWARD VOLTAGE, VOLTS







PRINTING INSTRUCTIONS



NOTES:

- ■HONGXIN reserves the right to make changes to this document and its products and specifications at any time without notice.
- Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.
- ■HONGXIN makes no warranty,representation or guarantee regarding the suitability If its products for any particular purpose, nor does HONGXIN assume any liability for application assistance or customer product design.
- ■HONGXIN does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.
- No license is granted by implication or otherwise under any intellectual propety rights of HONGXIN.
- ■HONGXIN products are not authorized for use as critical components in life support devices or systems without express written approval by HONGXIN.

CONTACT INFORMATION:

DONGGUAN HONGXIN ELECTRONIC CO.,LTD

TEL:0769-83722095/83722096/38832588

FAX:0769-83722090/38832587

E-Mail:hongxin@hongxin-dg.com.cn

http://www.hongxin-dg.com.cn

Addess: No.1,gongye roab,shangchegang,gekeng village,hengli town,dongguan city,china.