

HSR520 THRU HSR5200

Reverse Voltage -20 to 200Volts

Forward Current -5.0 Ampere

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

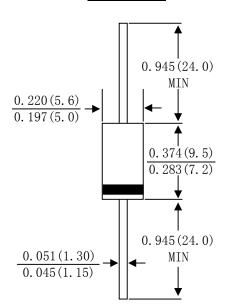
· Case: JEDEC DO-201AD molded plastic body

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

· Polarity: Color band denotes cathode end

• Mounting Position: Any

DO-201AD



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

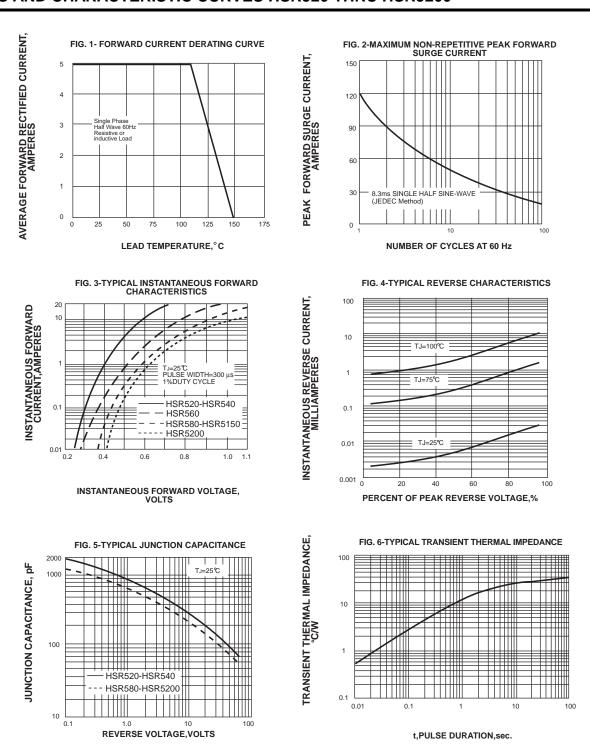
Single phase, half-wave 60Hz, resistive or inductive load, For capacitive load derate current by 20%.

Type Number	SYMBOL	HSR 520	HSR 540	HSR 560	HSR 580	HSR 5100	HSR 5150	HSR 5200	Units
Maximum recurrent peak reverse voltage	V _{RM}	20	40	60	80	100	150	200	V
Maximum RMS voltage	VRMS	14	28	42	56	70	105	140	V
Maximum DC blocking voltage	V _{DC}	20	40	60	80	100	150	200	V
Maximum average rectified output current 0.375"(9.5mm) lead length(see fig.1)	I(AV)	5.0							Α
Peak forward surge current 8.3ms single half sine- wave superimposed on rated load (JEDEC Method)	İfsm	120.0							А
Maximum instantaneous forward voltage at5.0A	VF	0.55		0.70		0.85		0.95	V
Maximum DC reverse current @TA=25°C		0.5 0.2							m A
At Rated DC blocking voltage @TA=100°C	lr	20.0			10.0		2.0		mA
Typical junction capacitance (Note 1)	Cj	500.0 400.0				pF			
Typical thermal resistance (Note 2)	RθJA	30.0							°C/W
Operating junction temperature range	Tj	-55 to +150							$^{\circ}$
Storage temperature range	Тѕтс	-55 to +150							$^{\circ}$

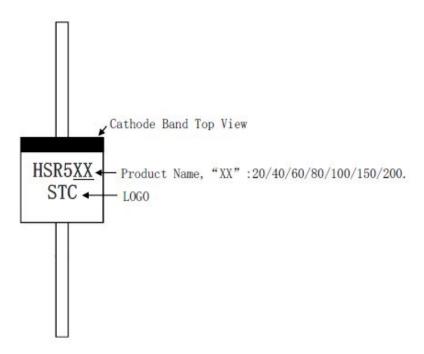
Note: 1. Measured at 1.0 MHz and applied reverse Voltage of 4.0V D.C

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 HSR520 THRU HSR5200



PRINTING INSTRUCTIONS



NOTES:

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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.