

# **HSR320 THRU HSR3200**

Reverse Voltage -20 to 200Volts

Forward Current -3.0 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**

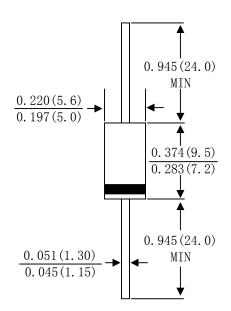
• Case: JEDEC DO-201AD molded plastic body

 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%.

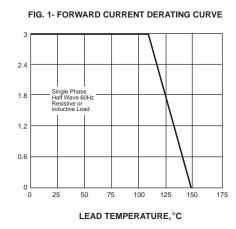
Type Number	SYMBOL	HSR 320	HSR 340	HSR 360	HSR 380	HSR 3100	HSR 3150	HSR 3200	Units
Maximum recurrent peak reverse voltage	$V_{RM}$	20	40	60	80	100	150	200	V
Maximum RMS voltage	V <sub>RMS</sub>	14	28	42	56	70	105	140	V
Maximum DC blocking voltage	V <sub>DC</sub>	20	40	60	80	100	150	200	V
Maximum average rectified output current 0.375"(9.5mm) lead length(see fig.1)	I <sub>(AV)</sub>	3.0							А
Peak forward surge current 8.3ms single half sine- wave superimposed on rated load (JEDEC Method)	İFSM	80.0						А	
Maximum instantaneous forward voltage at3.0A	VF	0.55		0.70		0.85		0.95	V
Maximum DC reverse current @TA=25°C		0.5 0.2							mΛ
At Rated DC blocking voltage @TA=100°C	lR	20.0			10.0		2.0		mA
Typical junction capacitance (Note 1)	Cj	250.0			160.0				
Typical thermal resistance (Note 2)	RθJA	40.0						°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 HSR320 THRU HSR3200**







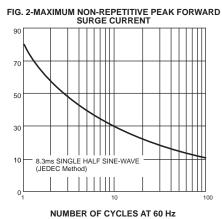


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

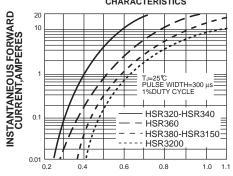
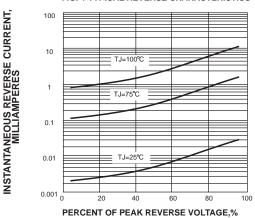
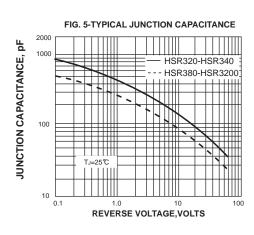


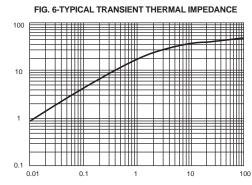
FIG. 4-TYPICAL REVERSE CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

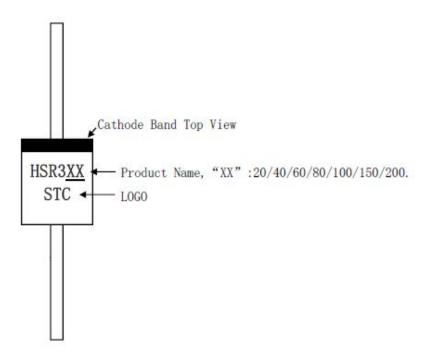






t,PULSE DURATION,sec.

## PRINTING INSTRUCTIONS



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