

HSR220 THRU HSR2200

Reverse Voltage -20 to 200Volts

Forward Current -2.0 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

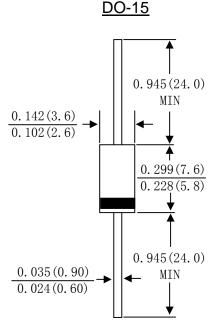
Mechanical Data

· Case: JEDEC DO-15 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)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

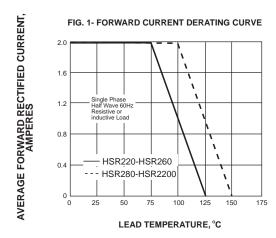
Single phase, half-wave 60Hz, resistive or inductive load, For capacitive load derate current by 20%.

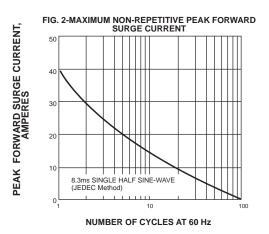
Single prides, ridii wave ser iz, resistive er madetive read, er eapasitive read derate earrein by 2078.									
Type Number	SYMBOL	HSR 220	HSR 240	HSR 260	HSR 280	HSR 2100	HSR 2150	HSR 2200	Units
Maximum recurrent peak reverse voltage	V _{RM}	20	40	60	80	100	150	200	V
Maximum RMS voltage	V _{RMS}	14	28	42	56	70	105	140	V
Maximum DC blocking voltage	VDC	20	40	60	80	100	150	200	V
Maximum average rectified output current 0.375"(9.5mm) lead length(see fig.1)	I _(AV)	2.0							Α
Peak forward surge current 8.3ms single half sine- wave superimposed on rated load (JEDEC Method)	İfsm	40.0							Α
Maximum instantaneous forward voltage at2.0A	VF	0.55		0.70	0.85			0.95	V
Maximum DC reverse current @TA=25°C	IR	0.5 0.2						mA	
At Rated DC blocking voltage @TA=100°C	IR	20.0			5.0		2.0		IIIA
Typical junction capacitance (Note 1)	Cj	220.0				80.0			pF
Typical thermal resistance (Note 2)	RθJA	50.0						°C/W	
Operating junction temperature range	Tj	-55 to +125		5	-55 to +150				$^{\circ}\mathbb{C}$
Storage temperature range	Тѕтс	-55 to +150							$^{\circ}\mathbb{C}$

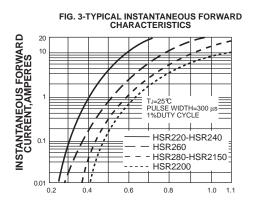
Note: 1. Measured at 1.0 MHz and applied reverse Voltage of 4.0V D.C

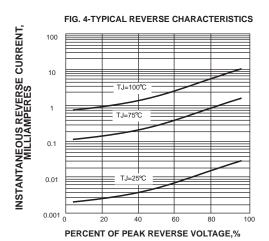
2. Thermal resistance from junction to ambient and from junction to lead at 0.375"(9.5mm) lead length, P.C.B. mounted.

RATINGS AND CHARACTERISTIC CURVES HSR220 THRU HSR2200

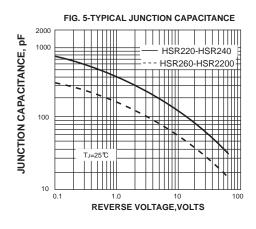


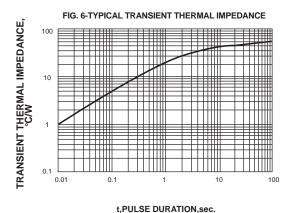




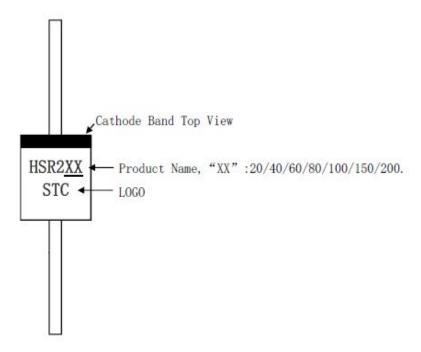








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