SR320 THRU SR3200

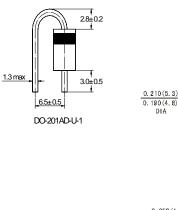
SCHOTTKY BARRIER RECTIFIERS Reverse Voltage - 20 to 200 V Forward Current - 3 A

Features

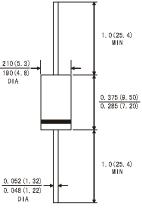
- Plastic package has UL flammability classification 94V-0
- Metal silicon junction, majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High surge capability

Mechanical Data

- Case: Molded plastic body, DO-201AD
- Terminals: Plated axial leads, solderable per MIL-STD-750, method 2026
- Polarity: color band denotes cathode end
- Mounting Position: Any







Dimensions in inches and (millimeters)

Absolute Maximum Ratings and Characteristics

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

Parameter		SR320	SR330	SR340	SR350	SR360	SR380	SR3100	SR3150	SR3200	Units
Maximum Repetitive Peak Reverse Voltage		20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage		14	21	28	35	42	56	70	105	140	V
Maximum DC Blocking Voltage		20	30	40	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current 0.375" (9.5 mm) Lead Length		3									А
Peak Forward Surge Current, 8.3 ms Single Ha Sine-Wave Superimposed on Rated Load (JED method)		I _{FSM} 80						A			
Maximum Forward Voltage at 3 A DC		0.55		0	.7	0.85		0.9	0.95	V	
Maximum Reverse Current at Rated T _A = 25	°C I _R	0.5									mA
DC Blocking Voltage $T_A = 100$	^א י ⊃°C	20			10						
Typical Junction Capacitance ¹⁾			250 160							pF	
Typical Thermal Resistance 2)			40								
Operating Junction Temperature Range		- 5	- 55 to + 125 - 55 to + 150							°C	
Storage Temperature Range	T _{stg}		- 55 to + 150								

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V DC.

²⁾ Thermal resistance from junction to lead vertical P.C.B mounted, 0.5" (12.7 mm) lead length.

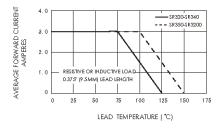




listed on the Hong Kong Stock Exchange, Stock Code: 724)









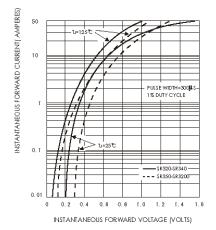
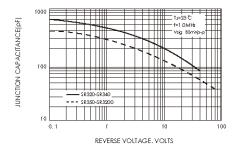


FIG.5-TYPICAL JUNCTION CAPACITANCE





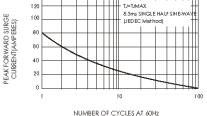
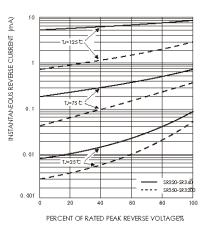
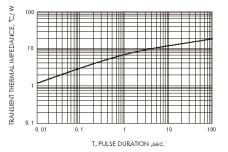


FIG.4-TYPICAL REVERSE CHARACTERISTICS









SEMTECH ELECTRONICS LTD. (Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)

Dated : 08/01/2009 J