SR220 - SR2200

Schottky Barrier Rectifier Reverse Voltage 20 to 200V Forward Current 2.0A

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High forward surge current capability
- High temperature soldering guaranteed:
 250°C/10 seconds, 0.375"(9.5mm) lead length
 5lbs. (2.3kg) tension

Mechanical data

- Case: JEDEC DO-15 molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color Band denotes cathode end
- Mounting Position: any

DO-15 25. 4 MIN 25. 4 MIN 3. 6 2. 6 Unit: mm

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified

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

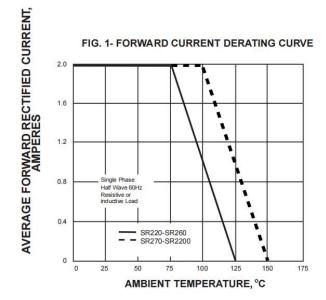
Parameter	Sym bols	SR 220	SR 230	SR 240	SR 250	SR 260	SR 270	SR 280	SR 290	SR 2100	SR 2150	SR 2200	Uni t
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	70	80	90	100	150	200	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	49	56	63	70	105	140	V
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	70	80	90	100	150	200	V
Maximum average forward current .375"(9.5mm) Lead length (see fig.1)	I _{F(AV)}	2. 0										A	
Peak forward surge current 8.3 ms single hafl sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	60.0										A	
Maximum instantaneous forward Voltage at 2.0A	V _F	0. 45	0. 45 0. 55			0.70			0.85				V
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R		0. 5						. 0			0.2	
Typical Junction capacitance (Note 1)	CJ	220			80								pF
Typical thermal resistance (Note 2)	R _{0JA}	50.0											°C /W
Operating junction temperature range	TJ			-65	to +125	o +125			-65 to +150				°C
Storage temperature range	Тѕтс	-65 to +150											°C

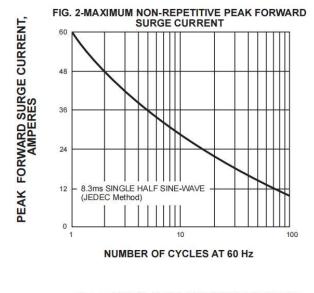
Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

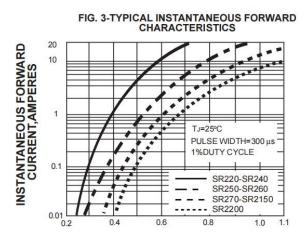
2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

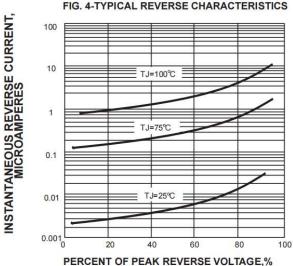
Ratings and Characteristic Curves

(TA=25°C unless otherwise noted)

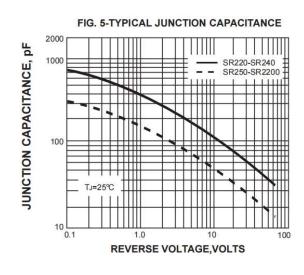


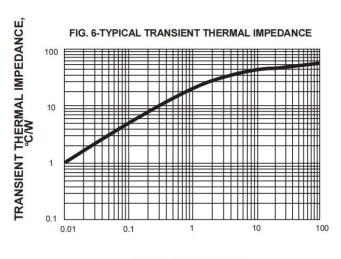






INSTANTANEOUS FORWARD VOLTAGE, VOLTS





t, PULSE DURATION, sec.