SR220 THRU SR2200

Schottky Barrier Rectifiers Reverse Voltage - 20 to 200 V Forward Current - 2 A

Features

- · Guard ring for overvoltage protection
- · Low power loss, high efficiency
- · High current capability, low forward voltage drop
- · High surge capability
- Metal silicon junction, majority carrier conduction

Mechanical Data

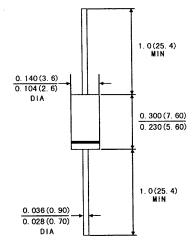
• Case: Molded plastic, DO-15

• Terminals: Axial 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 Characteristics

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

. o. capacitive lead, delate by 2070.											
Parameter	Symbols	SR220	SR230	SR240	SR250	SR260	SR280	SR2100	SR2150	SR2200	Units
	Marking	SR220	SR230	SR240	SR250	SR260	SR280	SR2100	SR2150	SR2200	-
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	57	71	105	140	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	150	200	V
Maximum Forward Voltage at 2 A	V _F	0.55 0.7				0.	35 0.95		95	٧	
Maximum Average Forward Rectified Current 0.375"(9.5 mm) Lead Length	I _{F(AV)}	2								Α	
Peak Forward Surge Current 8.3 ms Single half sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	60									Α
Maximum Reverse Current at Rated T _a = 25 °C	I _R				0.5				0.2		mA
DC Blocking Voltage $T_a = 100 ^{\circ}\text{C}$		10				;			5		
Typical Junction Capacitance 1)	CJ	220				80					pF
Typical Thermal Resistance 2)	$R_{\theta JA}$	50								°C/W	
Operating JunctionTemperature Range	Tj	- 55 to + 125 - 55 to + 150						°C			
Storage Temperature Range	T _{stg}	- 55 to + 150								Ô	

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



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

Ratings and Electrical Characteristics Curves

