SR520 - SR560

5.0A SCHOTTKY BARRIER RECTIFIER

Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- High Current Capability
- Low Power Loss, High Efficiency
- High Surge Current Capability
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications

Mec	hani	cal	Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 1.2 grams (approx.)
- Mounting Position: Any
- Marking: Type Number

DO-201AD Dim Min Max 25.4 Α 8.50 9.50 в С 1.20 1.30 D 5.0 5.60 All Dimensions in mm

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

Characteristic	Symbol	SR520	SR530	SR540	SR550	SR560	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	20	30	40	50	60	V
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	V
Average Rectified Output Current (Note 1) $@T_L = 100^{\circ}C$	ю	5.0					А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150					A
Forward Voltage $@I_F = 5.0A$	Vfm	0.55 0.70			70	V	
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	0.5 50				mA	
Typical Junction Capacitance (Note 2)	Cj	550			400		pF
Typical Thermal Resistance Junction to Ambient	R <i>θ</i> JA	10					K/W
Operating and Storage Temperature Range	Тј, Тѕтс	-65 to +150					°C

Note: 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

