

20SQ200 SCHOTTKY BARRIER RECTIFIER

Applications:

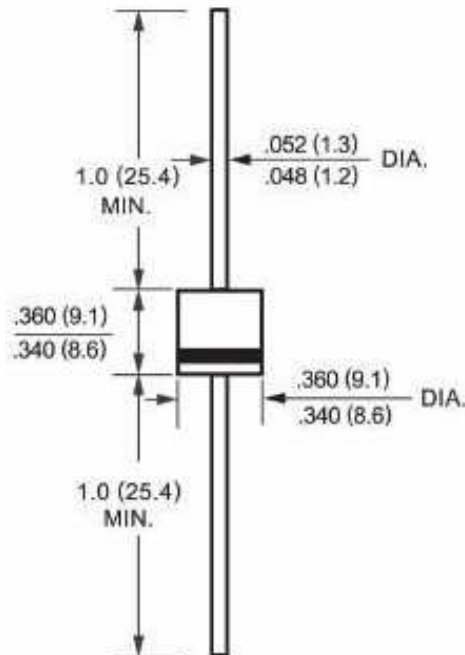
- DC-DC converters
- AC adapter
- High frequency rectification circuit
- Bypass diodes
- Photovoltaic Solar cell Protection Schottky Rectifier

Features:

- Super-high speed & low noise switching
- Low voltage drop
- This is a Pb – Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request



Mechanical Dimensions: In Inches/ mm



R-6



Technical Data
Data Sheet N1520, Rev. -

Green Products

Marking Diagram:



Where XXXXX is YYWWL

- 20 = Forward Current (20A)
- S = Package Type
- Q = Device Type
- 200 = Reverse Voltage (200V)
- SSG = SSG
- YY = Year
- WW = Week
- L = Lot Number

Cautions : Molding resin
Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
20SQ200	R-6 (Pb-Free)	500pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.



Maximum Ratings and Electrical Characteristics @ $T_A=25^{\circ}\text{C}$ unless otherwise specified

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

Characteristic	Symbol	20SQ200	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	200	V
Maximum RMS Voltage	V_{RMS}	140	V
Average Rectified Output Current (Note 1) @ $T_C = 135^{\circ}\text{C}$	$I_{F(AV)}$	20	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	300	A
Forward Voltage @ $I_F = 20\text{A}, T_A = 25^{\circ}\text{C}$ @ $I_F = 20\text{A}, T_A = 125^{\circ}\text{C}$	V_{FM}	1.10 1.00	V
Peak Reverse Current At Rated DC Blocking Voltage @ $T_A = 25^{\circ}\text{C}$ @ $T_A = 125^{\circ}\text{C}$	I_{RM}	1 8	mA
Junction Capacitance (Note 2)	C_T	400	pF
Maximum Thermal Resistance, Junction to lead	$R_{\theta JL}$	8	$^{\circ}\text{C}/\text{W}$
Storage Temperature Range	T_J, T_{STG}	-50 to +150	$^{\circ}\text{C}$
Case Style	R-6		

Note:1. Mount on Cu-Pad Size 5mm×5mm on P.C.B.

2. $V_R = 5\text{V}$, $f_{SIG} = 1\text{MHz}$



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