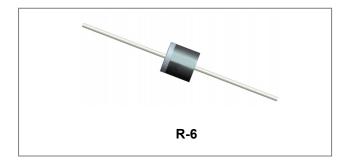


20SQ100

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20SQ100 SCHOTTKY BARRIER 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

Circuit Diagram



Mechanical Data

- DC-DC converters
- AC adapter
- High frequency rectification circuit
- Bypass diodes

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	100	v
Average Rectified Forward Current	I _{F (AV)}	50% duty cycle @T _c = 25°C, rectangular wave form	20	А
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse, T_C = 25 °C	280	A

Electrical Characteristics:

Characteristics	Symbol	Condition		Тур.	Max.	Units
				51		
Peak Forward Voltage	V _{FM1}	I _{FM} =20.0A,Ta=25℃		0.80	0.88	V
	V _{FM2}	I _{FM} =20.0A,Ta=12	5℃	0.70	0.74	V
Peak Reverse Current	I _{RRM1}	V _{RM} =V _{RRM}	Ta=25℃	0.006	1	mA
	I _{RRM2}	V RM-V RRM	Ta=125℃	0.1	6	
Junction Capacitance	Ст	@V _R = 5V, T _C = 25 °C, f _{SIG} = 1MHz		350	400	pF
Thermal Resistance	R _{θJ-c}	Between junction and case		3.0	-	°C/W
	R _{θJ-L}	Between junction and lead		2.0	-	1

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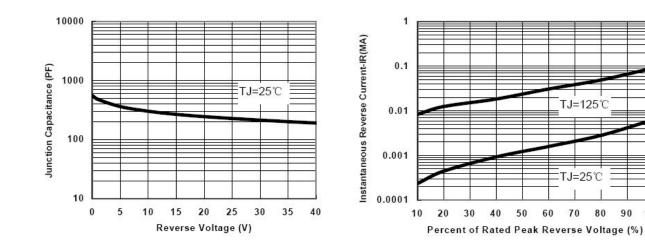


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Thermal-Mechanical Specifications:

Ratings and Characteristics Curves

Characteristics	Symbol	Condition	Specification	Units	
Junction Temperature	TJ	-	-55 to +150	°C	
Storage Temperature	T _{stg}	-	-55 to +150	°C	
Approximate Weight	wt	-	2.24	g	
Case Style		R-6			



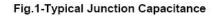


Fig.2-Typical Reverse Characteristics

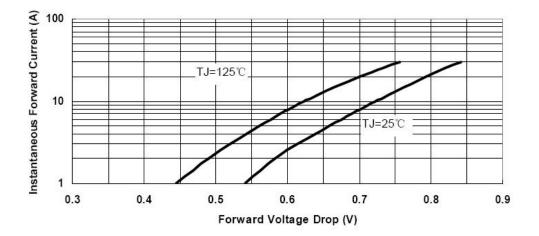


Fig.3-Typical Instantaneous Forward Voltage Characteristics

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100

90

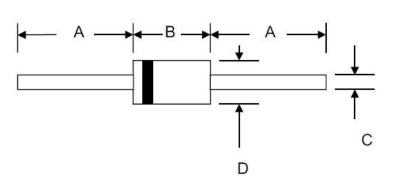


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Mechanical Dimensions R-6



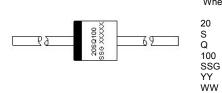
SYMBOL	Millim	neters	Inches		
STMBOL	Min.	Max.	ax. Min. I		
A	25.4	-	1.000	-	
В	8.60	9.10	0.340	0.360	
С	1.2	1.3	0.048	0.052	
D	8.60	9.10	0.340	0.360	

Ordering Information

Device	Package	Shipping	
20SQ100	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.





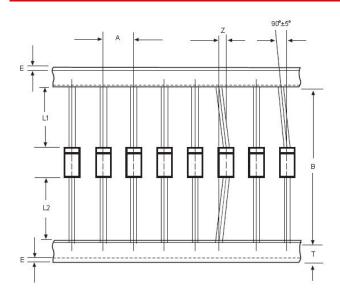
Where XXXXX is YYWWL

- = Forward Current (20A)
- = Package Type = Device Type
- = Reverse Voltage (100V)
- = SSG = Year
- = Week

L

= Lot Number

Carrier Tape Specification R-6



SYMBOL	Millimeters		
	Min.	Max.	
A	9.50	10.50	
В	50.9	53.9	
Z	-	1.20	
Т	5.60	6.40	
E	_	0.80	
IL1-L2I	_	1.0	

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