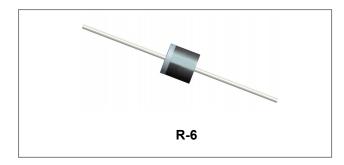


20SQ045-S

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20SQ045-S 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

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<u> </u>			10	9.	-	



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	-	45	V
Average Rectified Forward Current	I _{F (AV)}	50% duty cycle @T _A = 25°C, rectangular wave form	20	А
Peak One Cycle Non-Repetitive Surge Current	IFSM	8.3 ms, half Sine pulse	350	А

Electrical Characteristics:

Characteristics	Symbol	Condition		Тур.	Max.	Units
Peak Forward Voltage	V _{FM}	I _{FM} =20.0A,Ta=25℃		0.48	0.55	V
Peak Reverse Current	I _{RRM1}	Ta=25℃		0.2	0.5	mA
	I _{RRM2} V _{RM} =V _{RRM} Ta=10		Ta=100℃	20	50	
Thermal Resistance	R _{θJ-c}	Between junction and case		2.2	-	°C/W
	R _{0J-A}	Between junction and ambient		45	-	
R _{0J-L} Between junction and lead		2.0	-			

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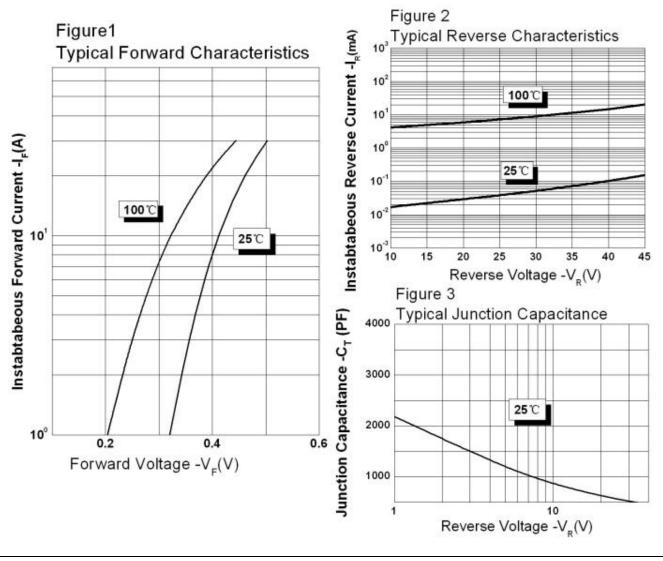
20SQ045-S



Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature at reduced reverse voltage at reduced reverse voltage in DC forward mode	TJ	Vr≪80%Vrrm Vr≪50%Vrrm	-55 to +150 -55 to +180 -55 to +200	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Approximate Weight	wt	-	2.24	g
Case Style		R-6		

Ratings and Characteristics Curves



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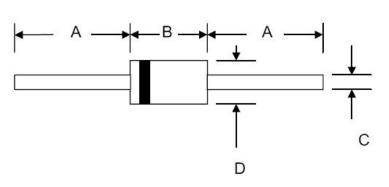


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Mechanical Dimensions R-6



SYMBOL	Millin	neters	Inches		
STMBOL	Min.	Max.	Min.	Max.	
А	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	
20SQ045-S	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.

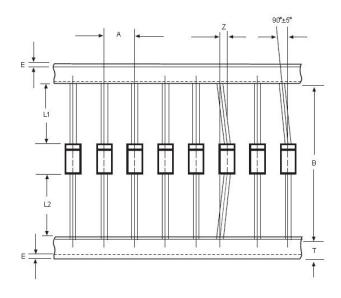
Marking Diagram



Where XXXXX is YYWWL

20SQ045-S = Part NameSSG= SSGYY= YearWW= WeekL= Lot Number

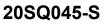
Carrier Tape Specification R-6



SYMBOL	Millimeters			
STMBOL	Min.	Max.		
А	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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