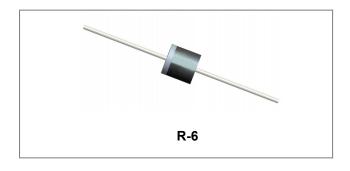






15SQ SERIES SCHOTTKY BARRIER RECTIFIER



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	Conditions	Value)	Units
		-	15SQ030	30	
Peak Repetitive Reverse Voltage	V _{RRM}		15SQ045	45	
Working Peak Reverse Voltage	V _{RWM}		15SQ050	50	V
DC Blocking Voltage	V _R		15SQ060	60	
			15SQ100	100	
Average Rectified Forward Current	I _{F(AV)}	R- load, Ta=50°C	15		Α
Surge(Non-repetitive)			15SQ030		
Forward Current		9 2mg single half sing	15SQ045	300	
	I _{FSM}	8.3ms single half sine- wave	15SQ050] 300	
		wave	15SQ060		
			15SQ100	340	

Electrical Characteristics:

Characteristics	Symbol	Conditions			Тур.	Max.	Units
Peak Forward Voltage*				15SQ030	0.48	0.55	
				15SQ045	0.48	0.55	
	VFM	Iғм=15.0А,Та=25°С		15SQ050	0.58	0.68	V
				15SQ060	0.58	0.68	
				15SQ100	0.78	0.83	
Peak Reverse Current*	IRRM1	V _{RM} =V _{RRM}	Ta=25℃	-	-	0.5	
	IRRM2	VRM-VRRM	Ta=100℃	-	-	25	
Thermal Resistance	R θJ-c	Between junction and case		-	3.0	-	°C/W
	R _{0J-L}	Between jun	ction and lead	-	2.0	-] C/VV

Pulse width < 300 µs, duty cycle < 2%

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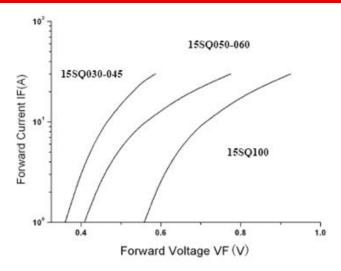




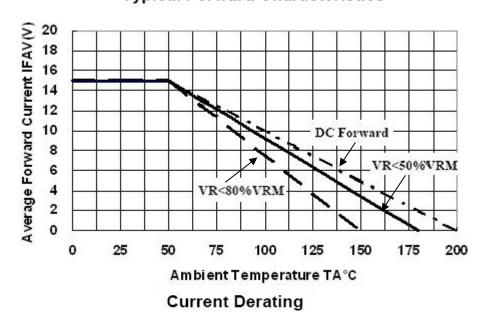
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature at reduced reverse voltage at reduced reverse voltage in DC forward mode	TJ	V _R ≤80%V _{RRM} V _R ≤50%V _{RRM}	-55 to +150 -55 to +180 -55 to +200	°C
Max. Storage Temperature	T_{stg}	-	-55 to +150	°C
Approximate Weight	wt	-	2.24	g

Ratings and Characteristics Curves



Typical Forward Characteristics



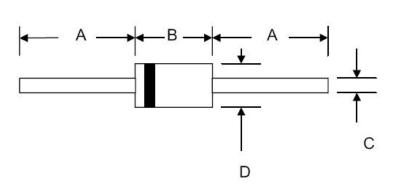
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Mechanical Dimensions R-6



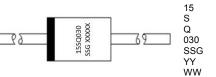
SYMBOL	Millim	neters	Inches		
STWBOL	Min.	Max.	Min.	Max.	
А	25.4	-	1.000	-	
В	8.60	9.10	0.340	0.360	
С	1.2	1.3	0.048	0.052	
D	8.60	9.10	0.340	0.360	

Ordering Information

Device	Package	Shipping
15SQ030		
15SQ045	R-6	
15SQ050	(Pb-Free)	500pcs / reel
15SQ060		
15SQ100		

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

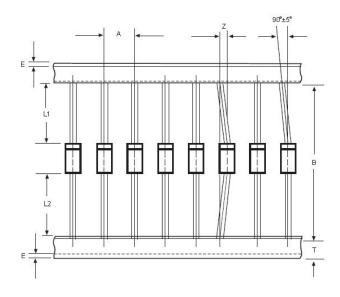
= Forward Current (15A) = Package Type

= Device Type = Reverse Voltage (30V) = SSG

Y = Year /W = Week

= vveek = Lot Number

Carrier Tape Specification R-6



SYMBOL	Millimeters			
STWIBOL	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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