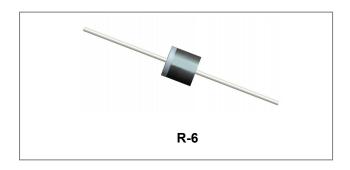


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15SQ SERIES SCHOTTKY BARRIER RECTIFIER



Features

- Super-high speed & low noise switching
- Low voltage drop
- Terminals finish: 100% Pure Tin
- 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	Valu	ıe	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	7
			15SQ100	100	
Average Rectified Forward Current	I _{F(AV)}	R- load, Ta=50℃	15	; '	Α
Surge(Non-repetitive)			15SQ030		А
Forward Current		9 2ms single helf sine	15SQ045	300	
	I _{FSM}	8.3ms single half sine-	15SQ050	300	
		wave	15SQ060		
			15SQ100	340	

Electrical Characteristics:

Characteristics	Symbol	Conditions			Тур.	Max.	Units
Peak Forward Voltage*		I _{FM} =15.0A,Ta=25℃		15SQ030	0.48	0.55	
				15SQ045	0.48	0.55	
	VFM			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	mA
	IRRM2	VRM-VRRM	Ta=100℃	-	-	25	IIIA
Thermal Resistance	R өJ-с			-	3.0	-	°C/W
	R _{θJ-L}			-	2.0	-	0/00

Pulse width < 300 µs, duty cycle < 2%

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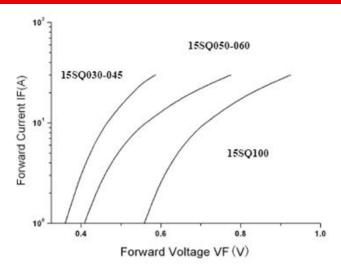




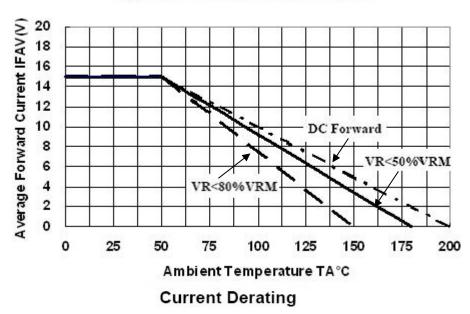
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature at reduced reverse voltage at reduced reverse voltage in DC forward mode	T₃	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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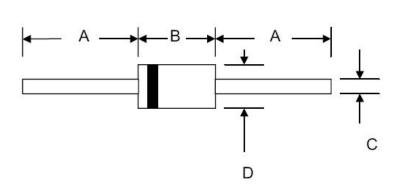


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Mechanical Dimensions R-6



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	D G		
15SQ050	R-6 (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

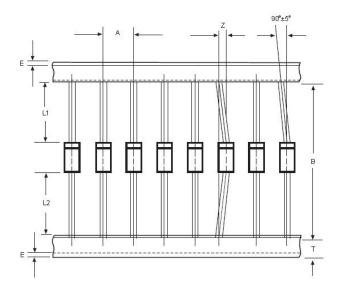


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030 = Reverse Voltage (30V) SSG = SSG = Year WW

= Week = 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		
Е	-	0.80		
IL1-L2I	-	1.0		

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15SQ SERIES



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