

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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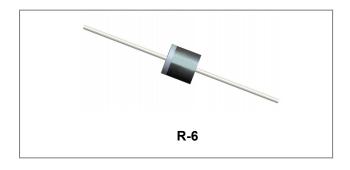








15SQ SERIES SCHOTTKY BARRIER RECTIFIER



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	Val	ue	Units
		-	15SQ030	30	
Peak Repetitive Reverse Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ \end{array}$		15SQ045	45	
Working Peak Reverse Voltage			15SQ050	50	□ v
DC Blocking Voltage			15SQ060	60	
			15SQ100	100	
Average Rectified Forward Current	I _{F(AV)}	R- load, Ta=50℃	15	5	Α
Surge(Non-repetitive) Forward Current			15SQ030		А
		9 2ms single half sing	15SQ045	300	
	I _{FSM}	8.3ms single half sine-	15SQ050	300	
		wave	15SQ060		
			15SQ100	340	7

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 өJ-с	Between junction and case		-	3.0	-	°C/W
	R _{θJ-L}	Between jun	ction and lead	-	2.0	-] C/VV

^{*} Pulse width < 300 µs, duty cycle < 2%

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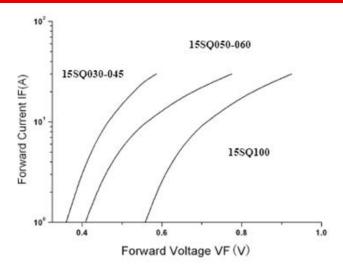




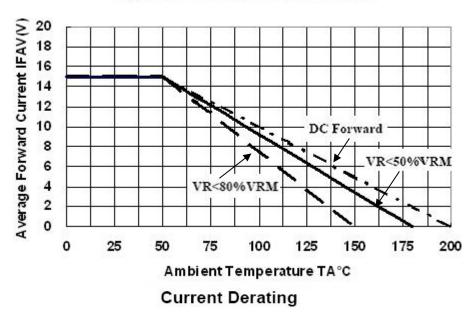
Thermal-Mechanical Specifications:

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



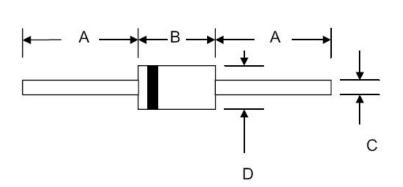
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Mechanical Dimensions R-6



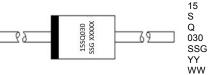
SYMBOL	Millim	neters	Inches		
STWBOL	Min.	Max.	Min.	Max.	
А	25.4	-	1.000	-	
В	8.60	9.10	0.340	0.360	
С	1.2	1.3	0.048	0.052	
D	8.60	9.10	0.340	0.360	

Ordering Information

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



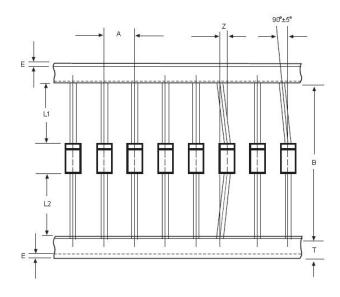
Where XXXXX is YYWWL

= Forward Current (15A) = Package Type = Device Type

= Reverse Voltage (30V) = SSG

Y = Year W = Week = Lot Number

Carrier Tape Specification R-6



SYMBOL	Millimeters			
STIVIBUL	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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