

Green Products

15SQ SERIES SCHOTTKY BARRIER RECTIFIER

Applications:

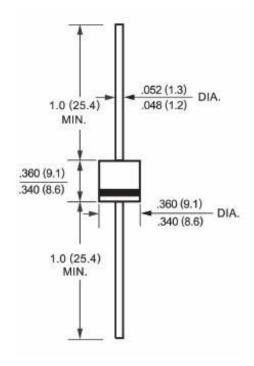
- DC-DC converters
- AC adapter
- High frequency rectification circuit
- Bypass diodes

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



Mechanical Dimensions: In Inches/ mm



R-6

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Marking Diagram:



Where XXX is 030/045/050/060/100 Where XXXXX is YYWWL

15 = Forward Current (15A)

S = Package Type Q = Device Type

XXX = Reverse Voltage (30/45/50/60/100V)

SSG = SSG YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

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

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

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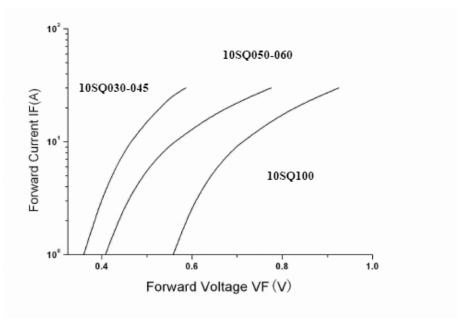
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Maximum ratings

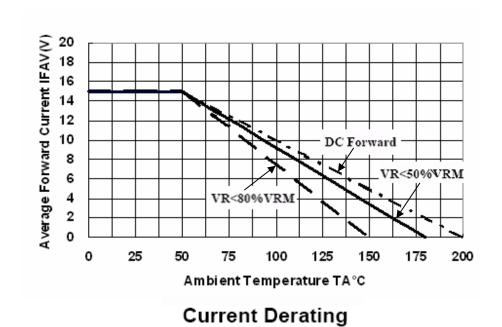
Туре	Transient peak reverse voltage V _{RSM} [V] @ half sine-wave	Forward voltage VF[V] @ IF=15A
15SQ030	30	0.55
15SQ045	45	0.55
15SQ050	50	0.68
15SQ060	60	0.68
15SQ100	100	0.83

Characteristics	Symbol	Value		Unit
Max. average forward current,R-load @Ta=50℃	I _{FAV}	15		A
Peak Repetitive Forward Current 8.3ms single	I _{FSM}	15SQ030	300	
half sine-wave		15SQ045		A
		15SQ050		
		15SQ060		
		15SQ100		
Junction temperature at reduced reverse voltage $ VR \leq 80\% V_{RRM} $ $ VR \leq 50\% \ V_{RRM} $ in DC forward mode	Tj	-50+150 ≤ 180 ≤ 200		°C
Storage temperature	Ts	-50+150		°C
Maximum DC Reverse Current @Ta=25℃, at Rated DC blocking voltage @Ta=100℃,	IR	<500 <25		uA mA
Thermal resistance junction to case	RthC	5		°C/W
Thermal resistance junction to leads	RthL	2.5		°C/W
Approximate Weight	wt	2.24		g

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Typical Forward Characteristics



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Technical Data Data Sheet N0129, Rev. A

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