



15SQ040L SCHOTTKY BARRIER RECTIFIER

Applications:

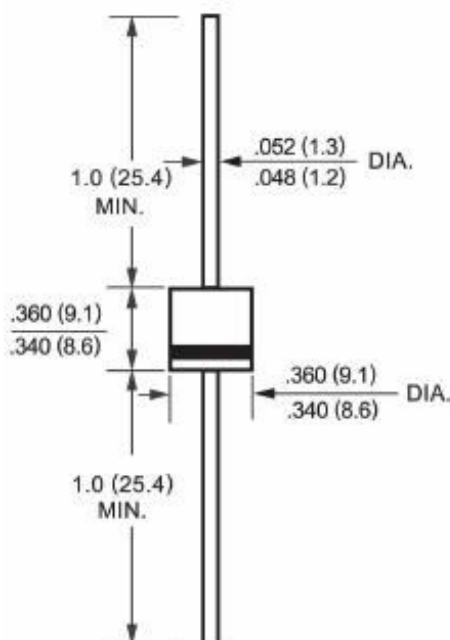
- DC-DC converters
- AC adapter
- High frequency rectification circuit
- Bypass diodes

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



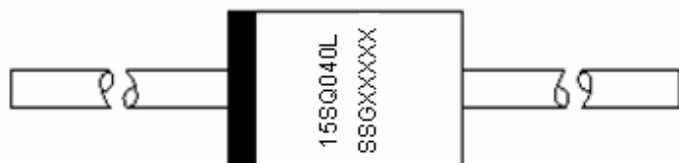
Mechanical Dimensions: In Inches/ mm



R-6

Marking Diagram:

Where XXXXX is YYWWL



15SQ040L = Part Name
SSG = SSG
YY = Year
WW = Week
L = Lot Number

Cautions: Molding resin
Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
15SQ040L	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.



Technical Data
Data Sheet N0023, Rev. -

Green Products

Maximum ratings

Type	Transient peak reverse voltage V_{RSM} [V] @ half sine-wave	Forward voltage V_F [V] @ $I_F=15A$
15SQ040L	40	0.48

Characteristics	Symbol	Value	Unit
Max. average forward current,R-load @ $T_a=50^{\circ}C$	I_{FAV}	15	A
Peak Repetitive Forward Current 8.3ms single half sine-wave	I_{FSM}	150	A
Junction temperature at reduced reverse voltage $VR \leq 80\%V_{RSM}$ $VR \leq 50\% V_{RSM}$ in DC forward mode	T_j	-50...+125 ≤ 150 ≤ 200	$^{\circ}C$
Storage temperature	T_s	-50...+175	$^{\circ}C$
Maximum DC Reverse Current @ $T_a=25^{\circ}C$, at Rated DC blocking voltage @ $T_a=100^{\circ}C$,	I_R	<500 <100	μA mA
Thermal resistance junction to case	R_{thC}	5	$^{\circ}C/W$
Thermal resistance junction to leads	R_{thL}	2.5	$^{\circ}C/W$

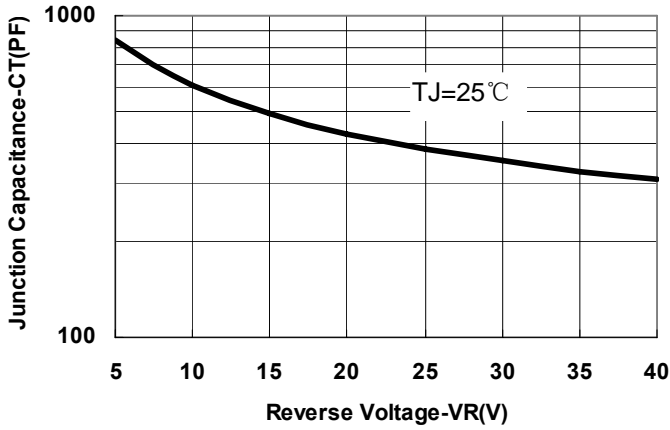


Fig.1-Typical Junction Capacitance Vs.Reverse Voltage

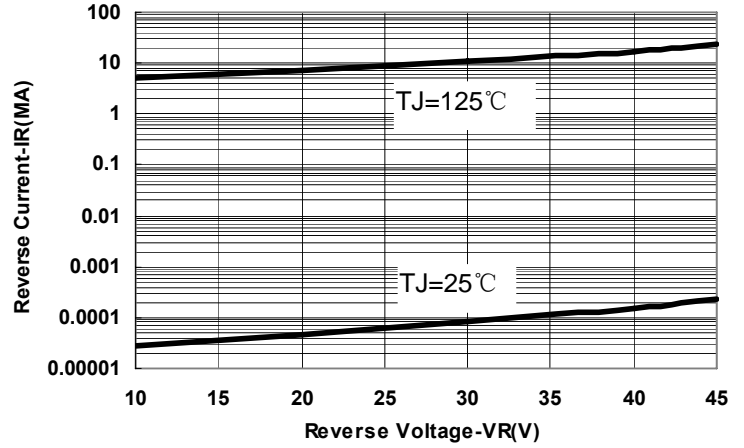


Fig.2-Typical Values Of Reverse Current Vs.Reverse Voltage

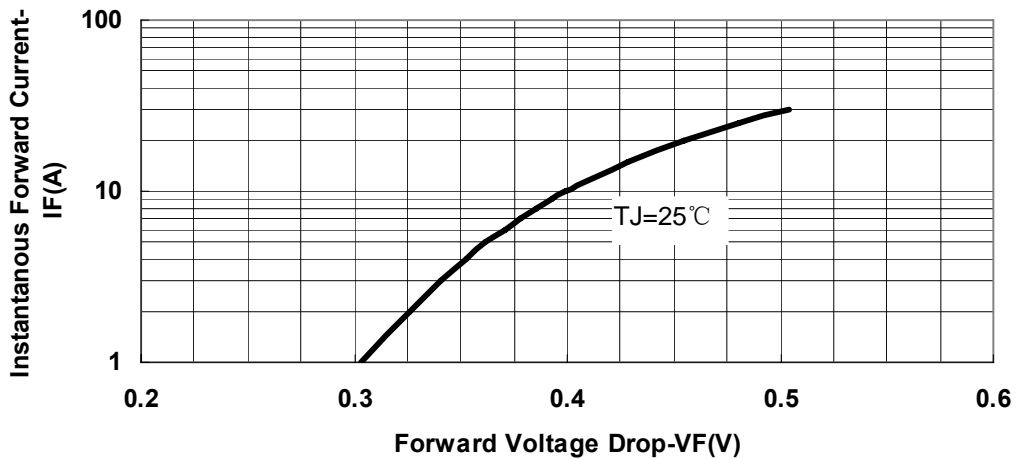


Fig.3-Typical Instantaneous Forward Voltage Characteristics



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