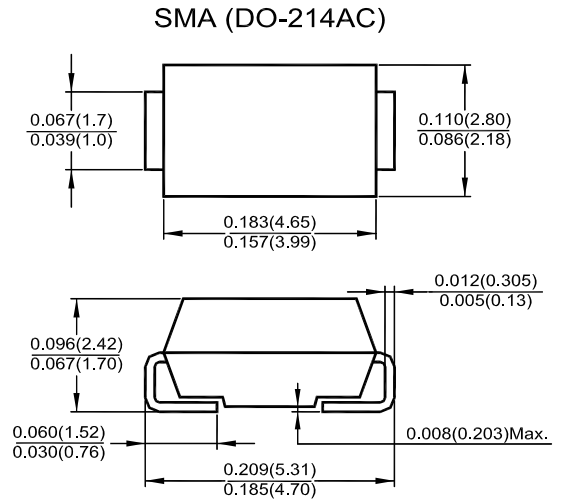


# RB161L-40

## SILICON EPITAXIAL PLANAR SCHOTTKY BARRIER DIODE FOR HIGH FREQUENCY RECTIFICATION AND SWITCHING POWER SUPPLY

### Features

- Compact power mold type
- Ultra low  $V_F$
- $V_{RM} = 40$  V guaranteed



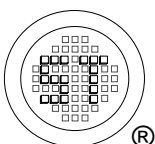
Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, resistive or inductive load, For capacitive load, derate by 20%

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	$V_{RM}$	40	V
DC Blocking Voltage	$V_R$	20	V
Mean Rectifying Current <sup>1)</sup>	$I_O$	1	A
Peak Forward Surge Current	$I_{FSM}$	70	A
Maximum Forward Voltage at $I_F = 1$ A	$V_F$	0.4	V
Maximum Reverse Current at $V_R = 20$ V	$I_R$	1	mA
Operating Junction Temperature Range	$T_J$	125	°C
Storage Temperature Range	$T_S$	- 40 to + 125	°C

<sup>1)</sup> When mounting on PCB



**SEMTECH ELECTRONICS LTD.**

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ISO/TS 16949 : 2002  
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Certificate No. 7116



ISO 9001:2000  
Certificate No. 0506098

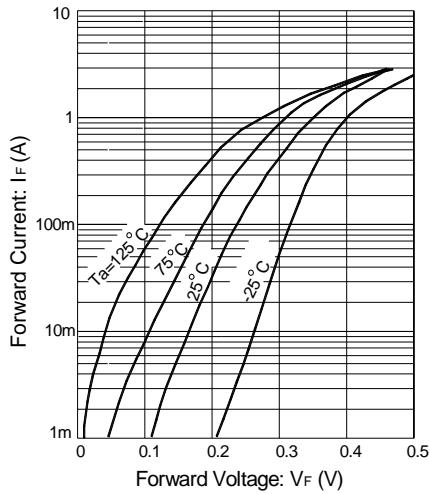


Fig. 1 Forward Characteristics

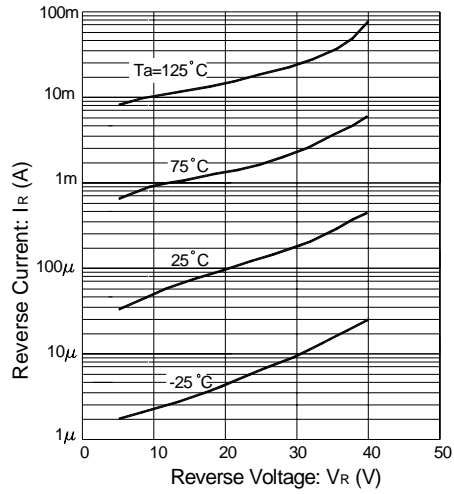


Fig. 2 Reverse Characteristics

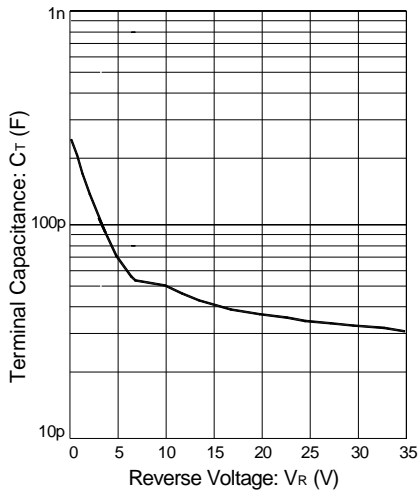
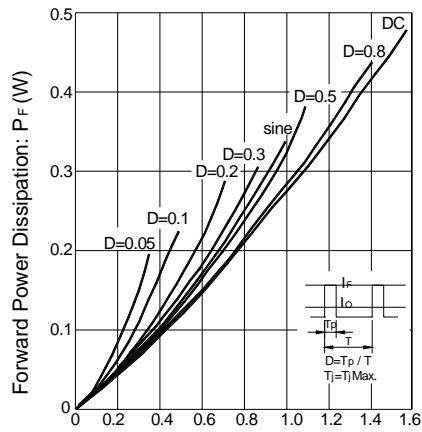


Fig. 3 Capacitance Between Terminals Characteristics



Average Rectified Forward Current:  $I_o$

Fig. 4 Forward Power Dissipation Characteristics

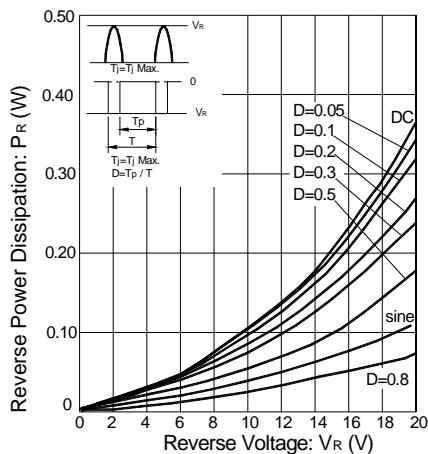


Fig. 5 Reverse Power Dissipation Characteristics

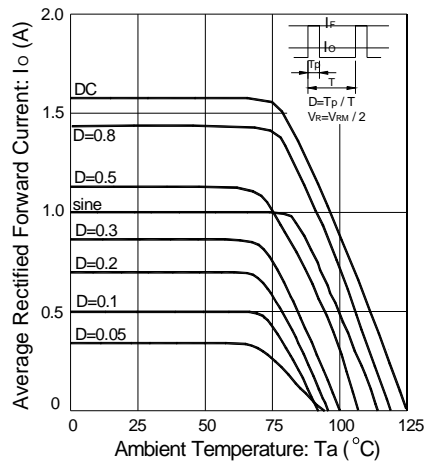
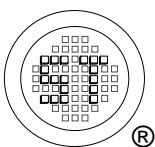


Fig. 6 Derating Curve (When Mounting On Glass Epoxy PCBs)



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