

SS051L-40

Surface Mount Schottky Barrier Rectifier

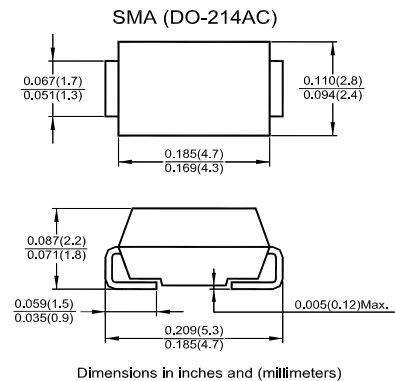
Reverse Voltage - 40 V

Forward Current - 3 A

Applications

- High frequency rectification
- For switching power supply

Marking: SS051L-40

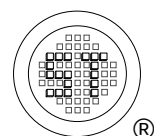


Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RM}	40	V
Reverse Voltage	V_R	20	V
Average Rectified Forward Current	$I_{F(AV)}$	3	A
Peak Forward Surge Current (8.3 ms)	I_{FSM}	70	A
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 40 to + 125	$^\circ\text{C}$

Electrical Characteristics ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 1\text{ A}$ at $I_F = 3\text{ A}$	V_F	0.35 0.45	V
Reverse Current at $V_R = 15\text{ V}$ at $V_R = 20\text{ V}$	I_R	150 1	μA mA



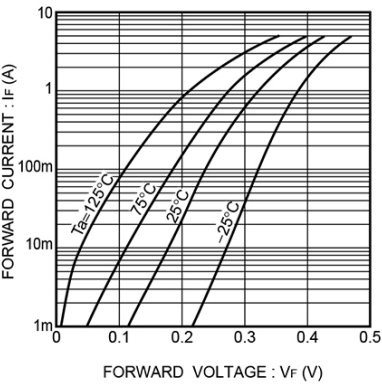


Fig. 1 Forward characteristics

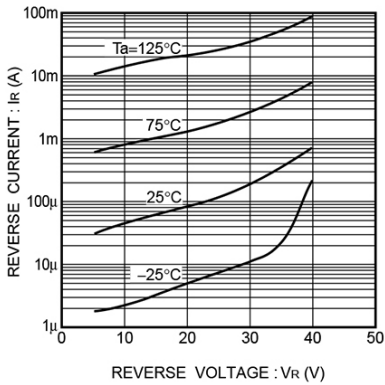


Fig. 2 Reverse characteristics

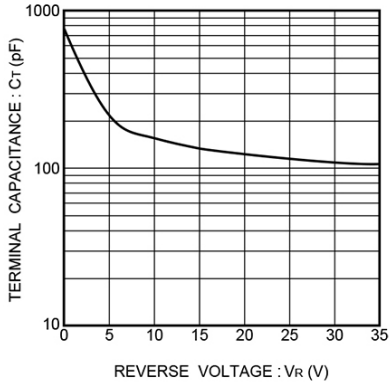


Fig. 3 Capacitance between terminals characteristics

