SS510L

ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE 100 Volt CURRENT 5 Ampere

FEATURES

- Ultra low forward voltage drop, low power loss
- High efficiency operation
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

Case : Molded plastic,DO-214AA

Terminals : Axial leads,solderable per MIL-STD-750, Method 2026

Polarity : Color band denotes cathode end

Approx weight : 0.1066 grams

Lead Free Finish/RoHS Compliant

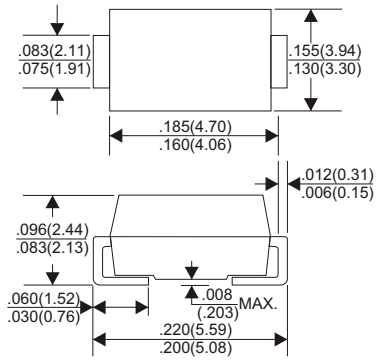
VOLTAGE RANGE

100 Volts

CURRENT

5.0 Amperes

DO-214AA(SMB)



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Charateristics @T_A=25℃ unless otherwise specified

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	100	V
Maximum rms voltage	V_{RMS}	70	V
Maximum dc blocking voltage	V_R	100	V
Maximum average forward rectified current	$I_{F(AV)}$	5	A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	125	A
Instantaneous forward voltage	V_F	0.72	V
Reverse current	I_R	500	μA
Typical thermal resistance (Note 1)	$R_{\Theta JL}$	23	°C/W
Operating junction temperature range	T_J	-55 to + 150	°C
Storage temperature range	T_{STG}	-55 to + 150	°C

Note : 1.The testing condition of the thermal resistance (junction to lead) is based on 10 mm lead length between two 10cm x 10cm x0.5mm copper pad.

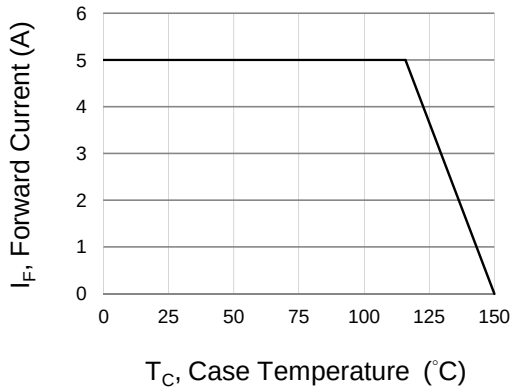


Fig.1 Forward Current Derating Curve

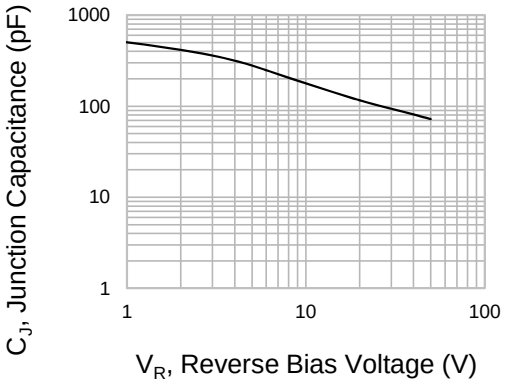


Fig.2 Typical Junction Capacitance

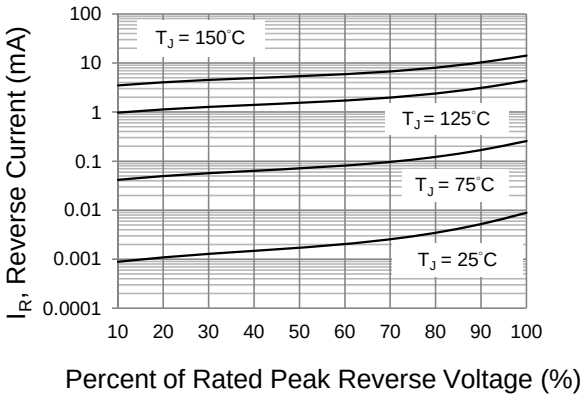


Fig.3 Typical Reverse Characteristics

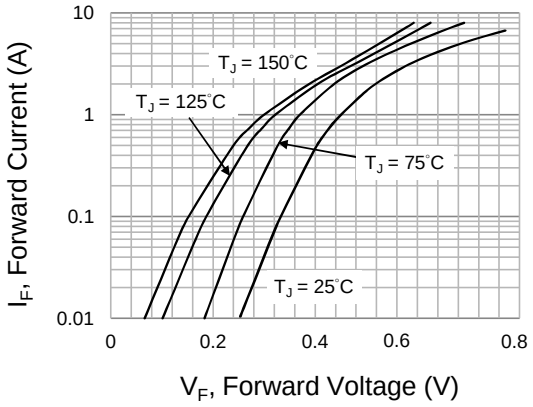


Fig.4 Typical Forward Characteristics