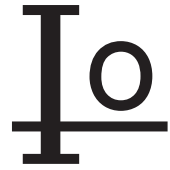


SS510LF



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,SMBFL
 Terminals : Axial leads,solderable per MIL-STD-750, Method 2026
 Polarity : Color band denotes cathode end
 Approx weight : 0.057grams
 Lead Free Finish/RoHS Compliant

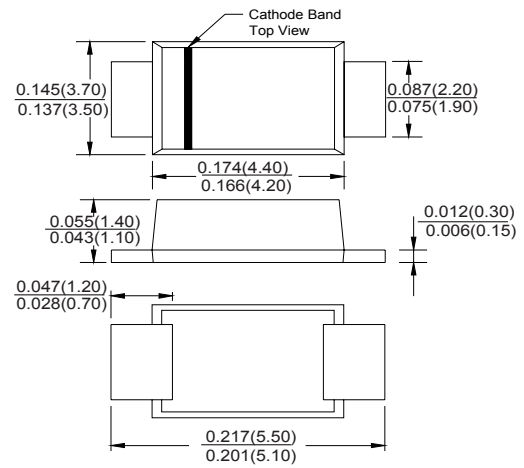
VOLTAGE RANGE

100 Volts

CURRENT

5.0 Amperes

SMBFL



MAXIMUM RATINGS(T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	100	V
Maximum rms voltage	V _{RMS}	70	V
Maximum dc blocking voltageV	R	100	V
Maximum average forward rectified currentI	F(AV)	5	A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	125	A
Typical thermal resistance(Note 1)R	θ _{JL}	23	°C/W
Operating junction temperature rangeT	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.

ELECTRICAL CHARACTERISTICS(T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT	
Breakdown voltage	V _{BR}	I _R =0.5mA T _J =25°C		100	-	V	
Instantaneous forward voltage	V _F	I _F =1A		-	0.42	-	
		I _F =3A	T _J =25°C	-	0.51	-	
		I _F =5A		-	-	0.60	V
		I _F =1A	T _J =125°C	-	0.32	-	
Reverse current	I _R	V _R =80V T _J =25°C		-	5	μA	
		V _R =100V T _J =25°C		-	-	50	
		V _R =100V T _J =125°C		-	5	μA mA	

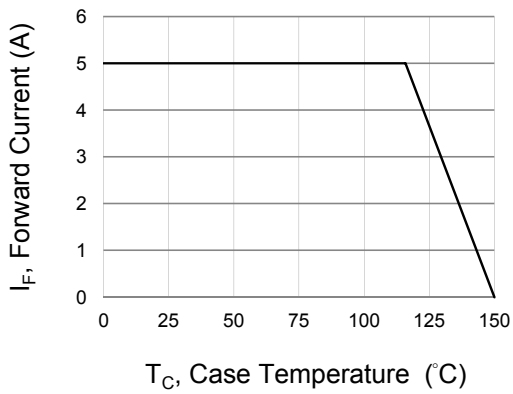


Fig.1 Forward Current Derating Curve

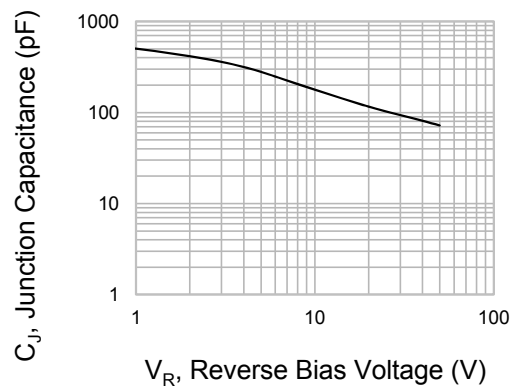


Fig.2 Typical Junction Capacitance

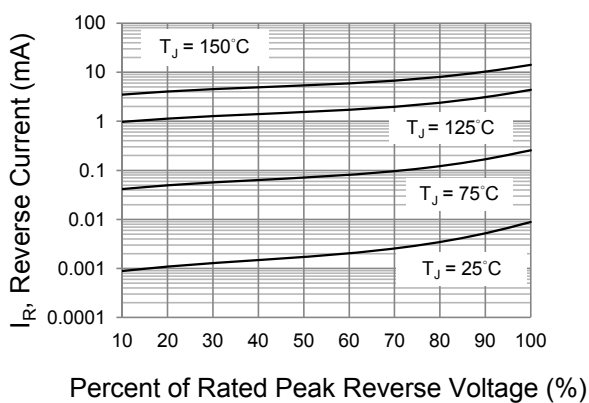


Fig.3 Typical Reverse Characteristics

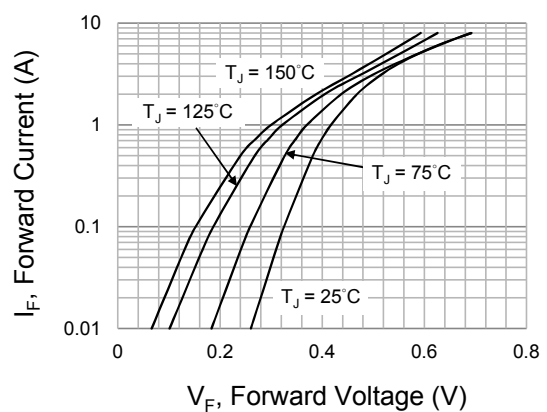


Fig.4 Typical Forward Characteristics