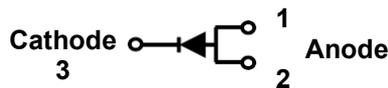


Trench MOS Barrier Schottky Rectifier

SMB-FL
8L60SB



Features

- Advanced trench technology
- Low forward voltage drop
- Low power losses
- High efficiency operation
- Lead Free Finish, RoHS Compliant

Applications

- DC/DC Converters
- AC/DC Adaptors

Maximum ratings and electrical characteristics (T_J = 25°C unless otherwise noted)

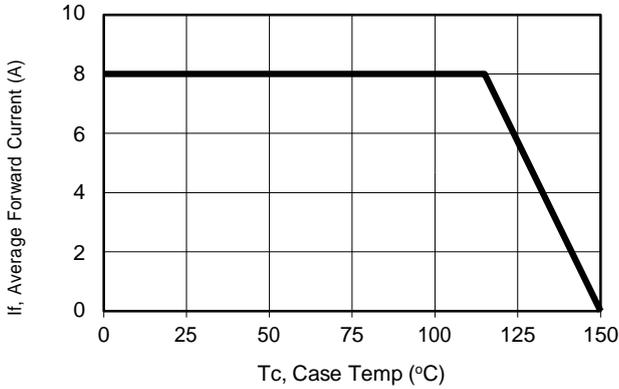
Parameter	Symbol	Limit	Unit		
Maximum repetitive peak reverse voltage	V _{RRM}	60	V		
Maximum average forward rectified current	I _{F(AV)}	8	A		
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load per diode	I _{FSM}	200	A		
Operating junction and storage temperature range	T _J , T _{STG}	-65 to +150	°C		
Typical thermal resistance per diode (Mounted on FR-4 PCB)	R _{θJL}	20	°C/W		
Instantaneous forward voltage	V _{F(1)}	TYP.	MAX.	V	
		I _F =2A T _J =25°C	0.4		-
		I _F =2A T _J =125°C	0.29		-
		I _F =8A T _J =25°C	0.51		0.53
Instantaneous reverse current per diode at rated reverse voltage	I _{R(2)}	T _J =25°C	-	30	uA
		T _J =125°C	-	10	mA

Notes:

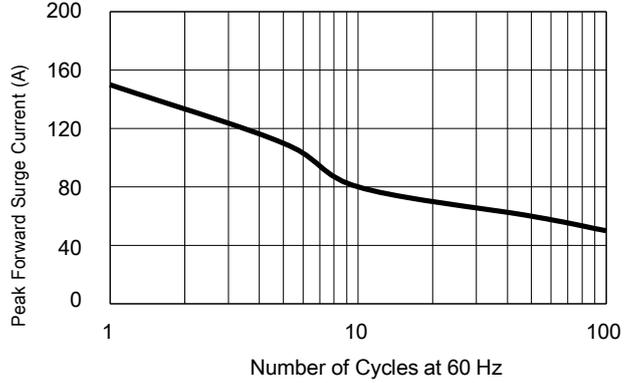
(1) Pulse test: 300 μs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width ≦ 40 ms

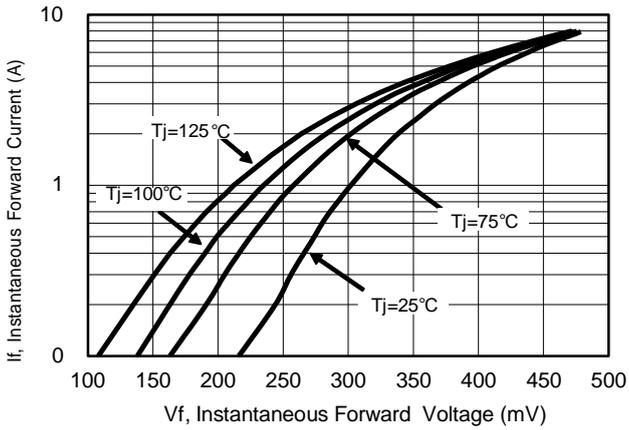
RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



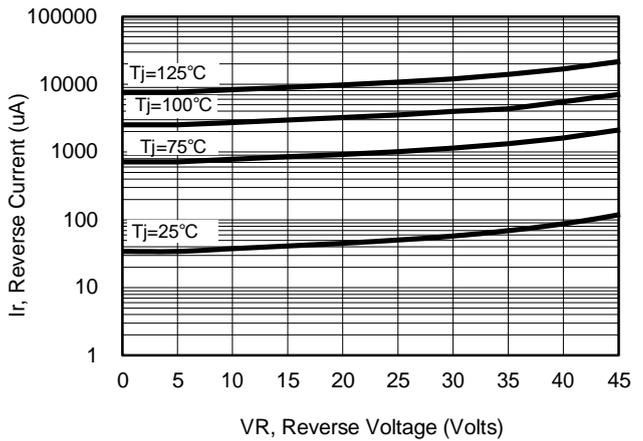
Current Derating, Case



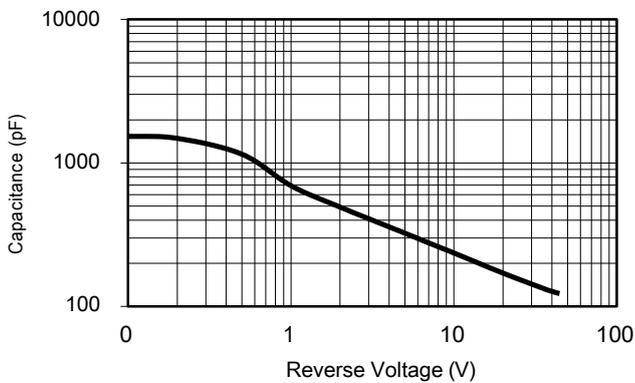
Maximum Repetitive Surge Current



Typical Forward Voltage



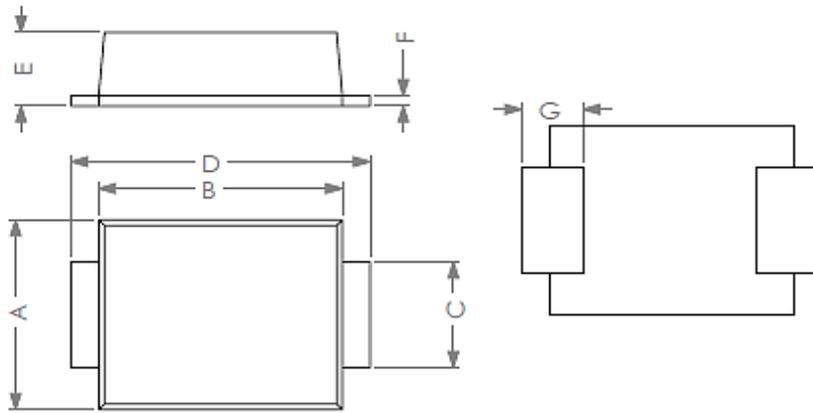
Typical Reverse Current



Typical Junction Capacitance

PACKAGE OUTLINE

SMB-FL



Dim	Min	Max
A	3.55	3.75
B	4.35	4.55
C	1.95	2.15
D	5.35	5.55
E	1.35	1.55
F	0.15	0.25
G	1.10	1.30

unit:mm