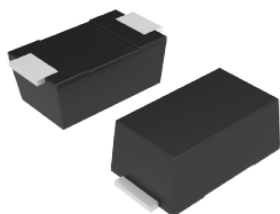


Schottky Barrier Rectifier

SS34AF

SMAF



Cathode  **Anode**

Features

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

Applications

- DC/DC Converters
- AC/DC Adaptors
- Switching Power Supplies
- Freewheeling Diodes

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

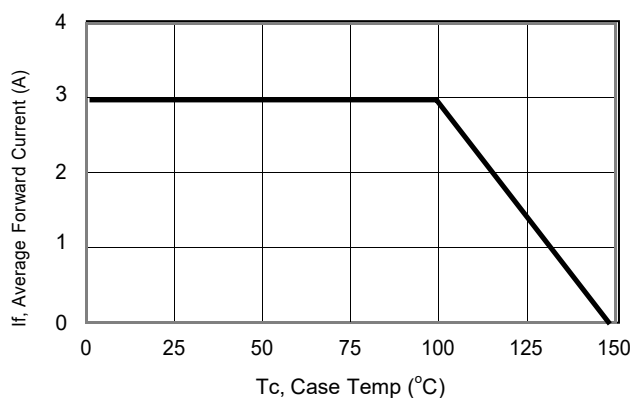
Parameter			Symbol	Limit		Unit
Maximum repetitive peak reverse voltage			VRRM	40		V
Maximum average forward rectified current			IF(AV)	3		A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load			IFSM	50		A
Operating junction and storage temperature range			TJ, TSTG	-55 to +150		°C
Typical thermal resistance			RθJA	72		°C/W
Instantaneous forward voltage			VF(1)	TYP.	MAX.	V
	IF=3A	TJ=25°C		0.50	0.55	
	IF=3A	TJ=125°C		0.45	-	
Instantaneous reverse current at rated reverse voltage		TJ=25°C	IR(2)	10	100	μA
		TJ=125°C		10	-	mA

Notes:

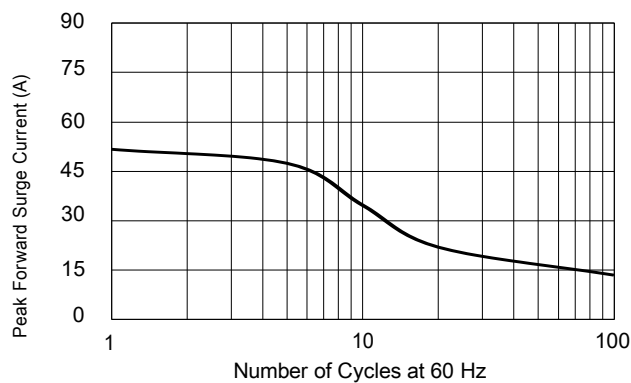
(1) Pulse test: 300 μs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width ≤ 40 ms

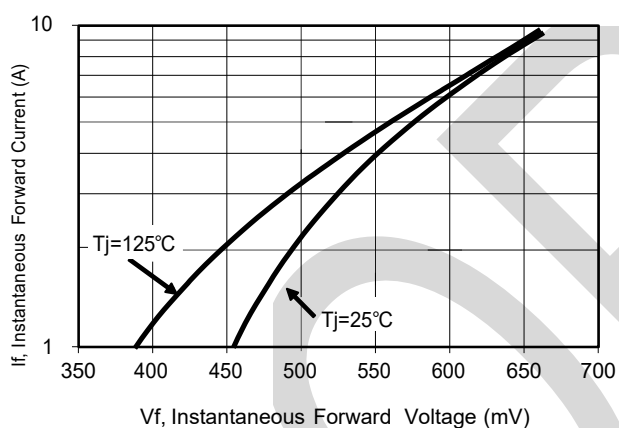
RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



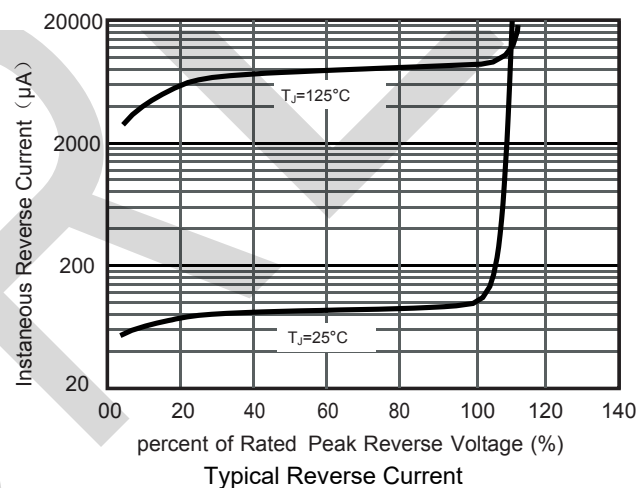
Current Derating, Case



Maximum Repetitive Surge Current



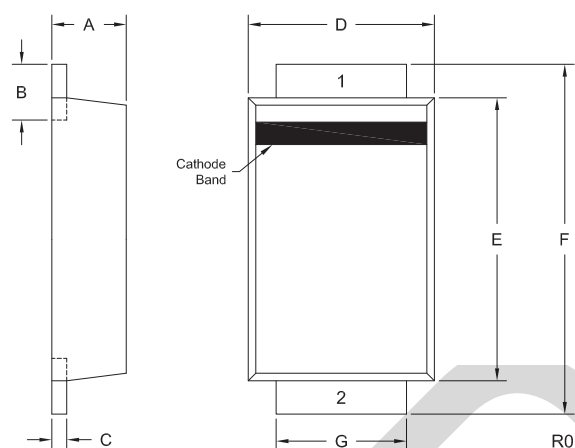
Typical Forward Voltage



Typical Reverse Current

PACKAGE OUTLINE DIMENSIONS

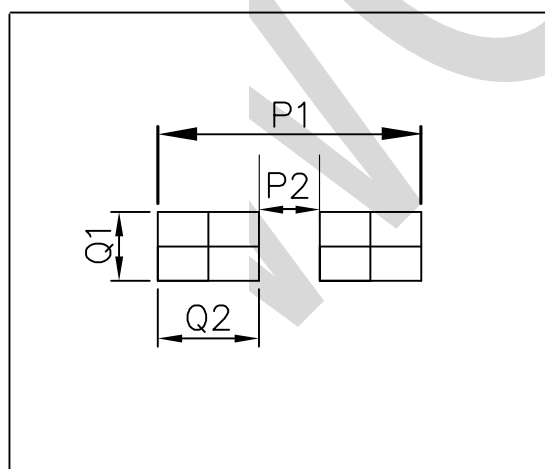
SMAF



SMAF mechanical data

UNIT		A	B	C	D	E	F	G
mm	max	1.10	0.95	0.25	2.8	3.9	4.9	1.65
	min	0.85	0.50	0.11	2.2	3.2	4.2	1.20
mil	max	43.30	37.40	9.84	110.24	153.54	192.91	64.96
	min	33.46	19.68	4.33	86.61	125.98	165.35	47.24

SMAF Suggested Pad Layout



UNIT		P1	P2	Q1	Q2
mm	min	5.10	1.50	1.7	1.8
mil	min	200.8	59.05	67.0	70.87