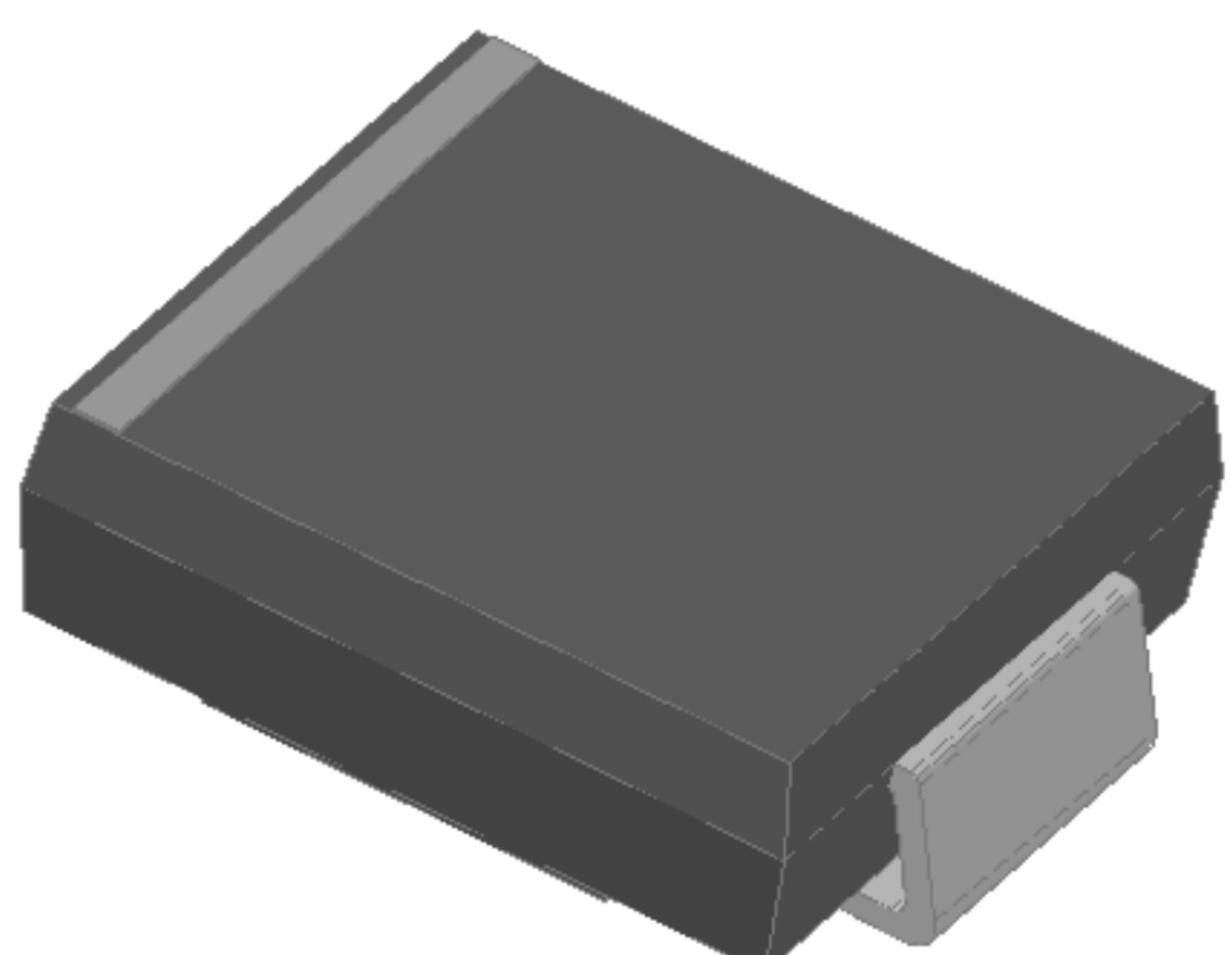


## SCHOTTKY BARRIER RECTIFIER

**SS5200C**  
**DO-214AB (SMC)**



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 ( $T_J = 25^\circ\text{C}$ unless otherwise noted)

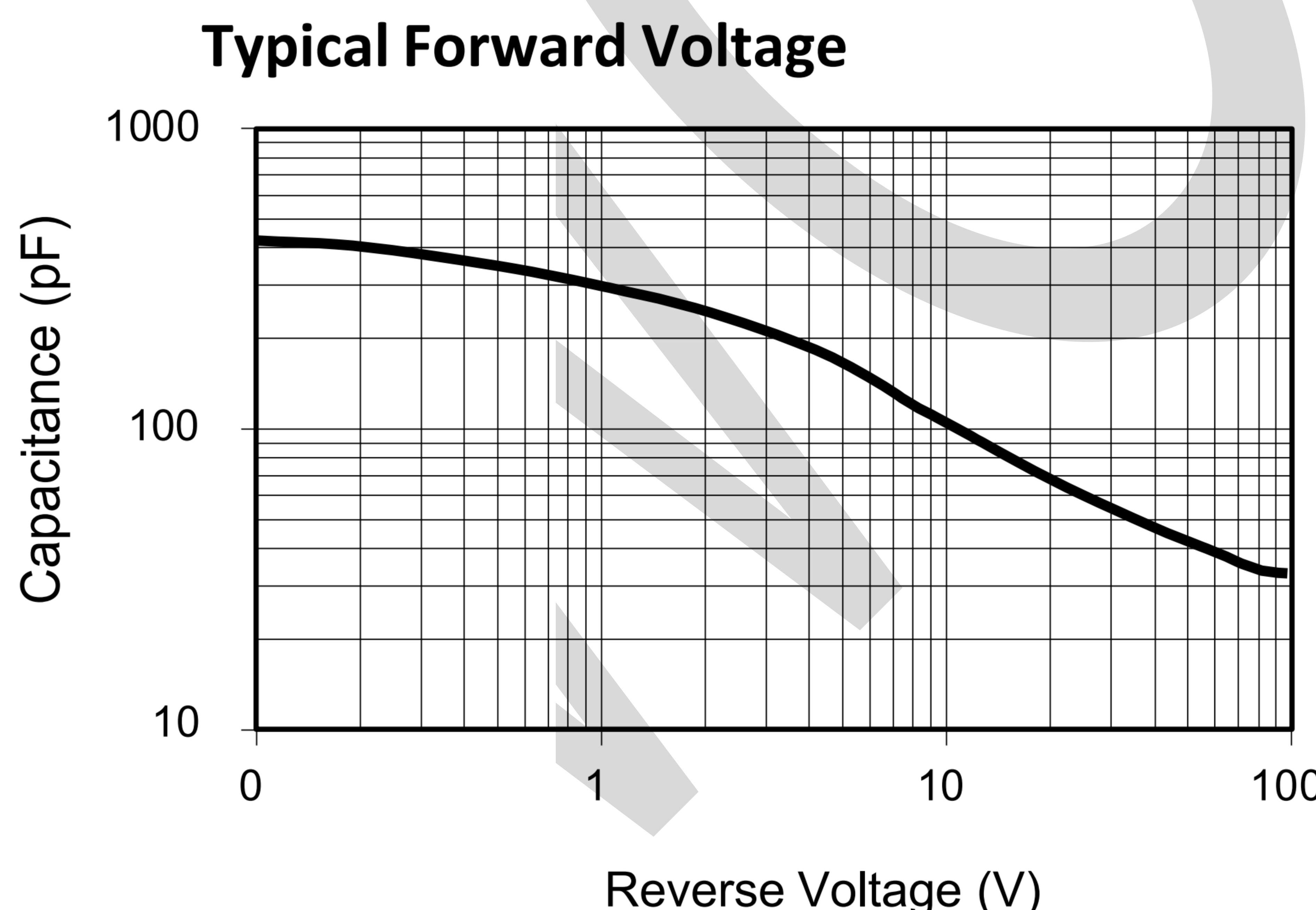
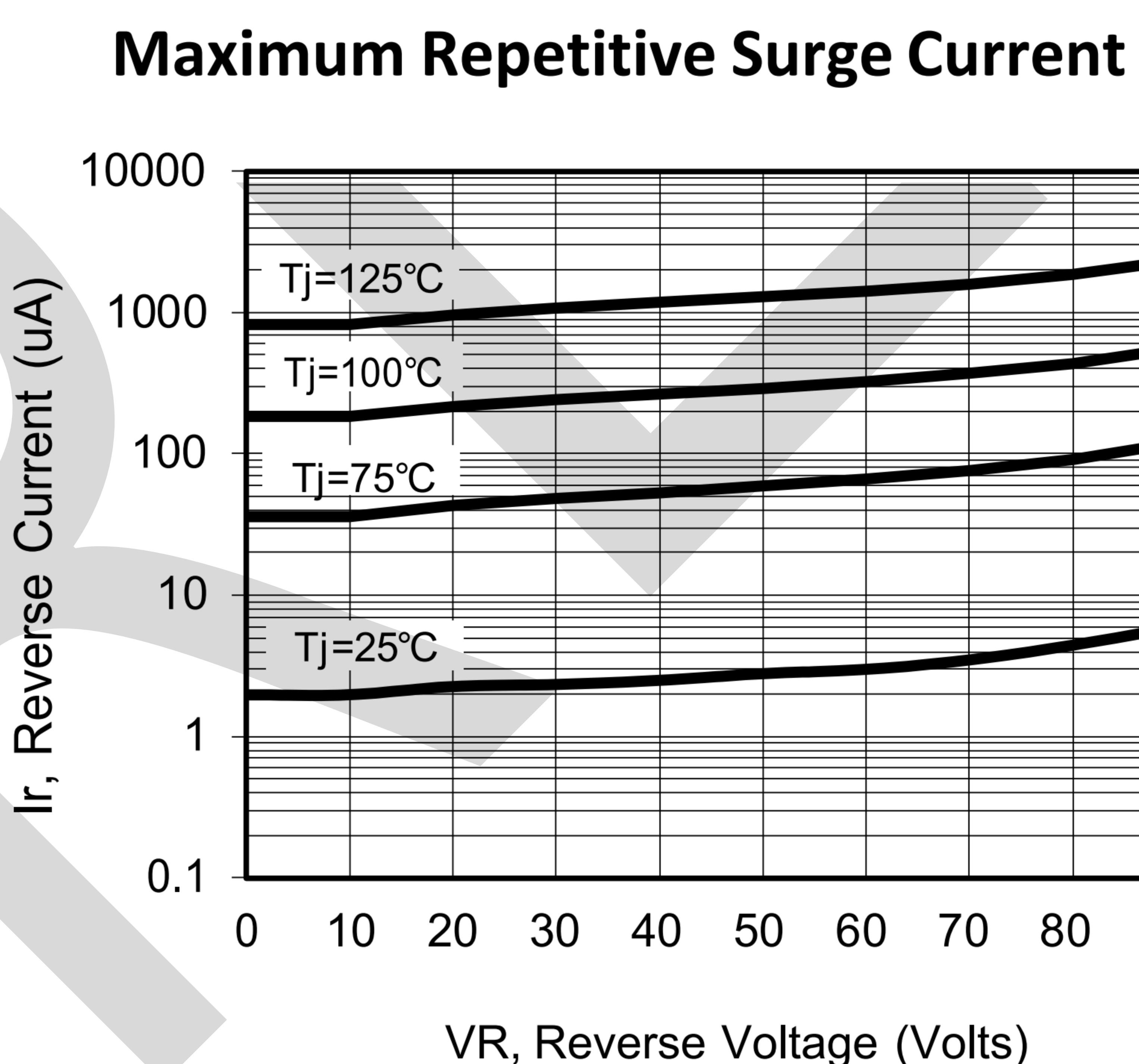
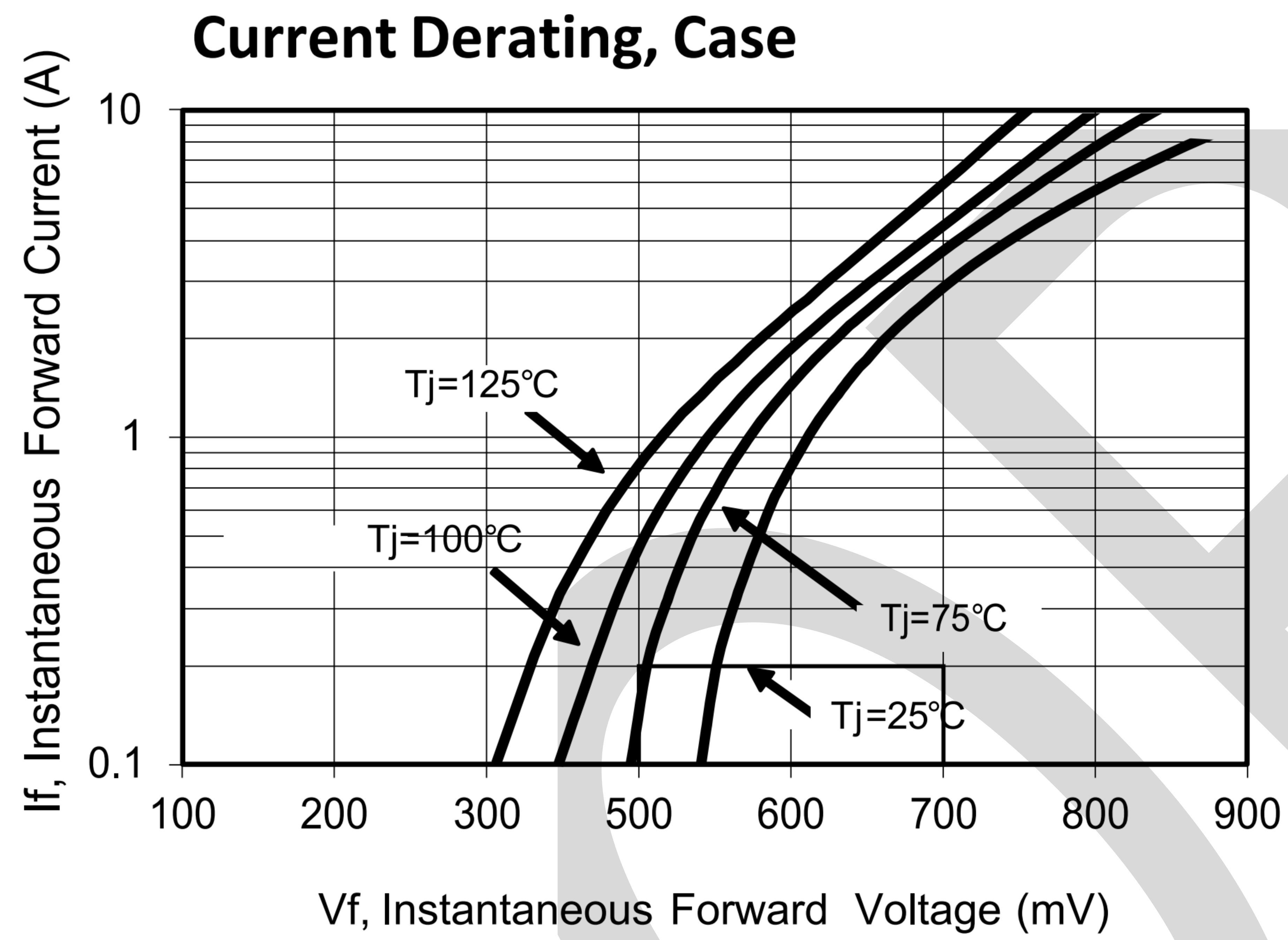
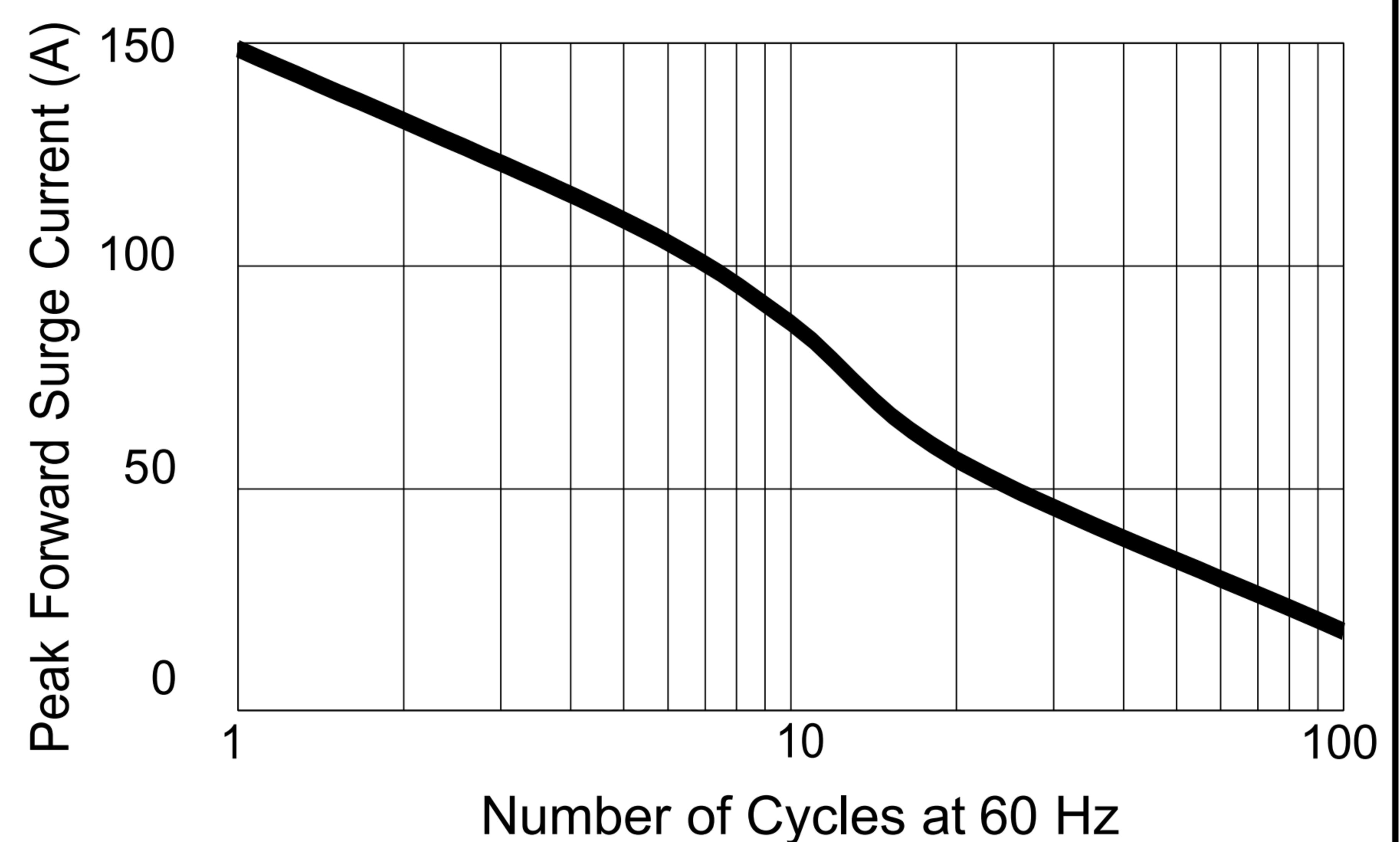
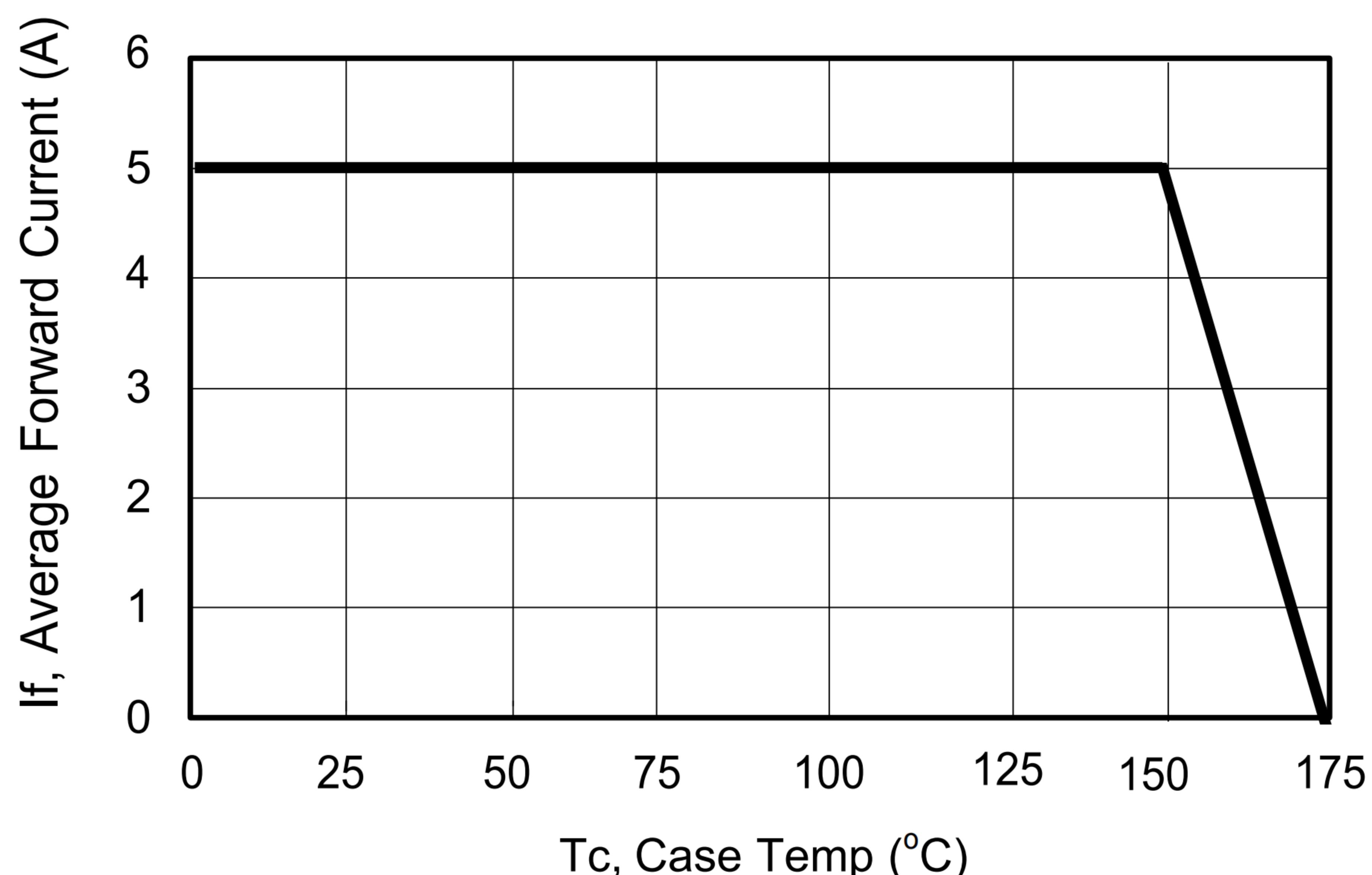
Parameter	Symbol	Limit		Unit
Maximum repetitive peak reverse voltage	VRRM	200		V
Maximum average forward rectified current	IF(AV)	5		A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	150		A
Operating junction and storage temperature range	TJ, TSTG	-50 to +175		°C
Typical thermal resistance	R <sub>θJA</sub>	50		°C/W
Instantaneous forward voltage	IF=5A	TJ=25°C	TYP.	MAX.
			0.78	0.85
	IF=5A	TJ=125°C	0.72	-
Instantaneous reverse current at rated reverse voltage	TJ=25°C		1	200
	TJ=125°C		2	-
		IR(2)		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)

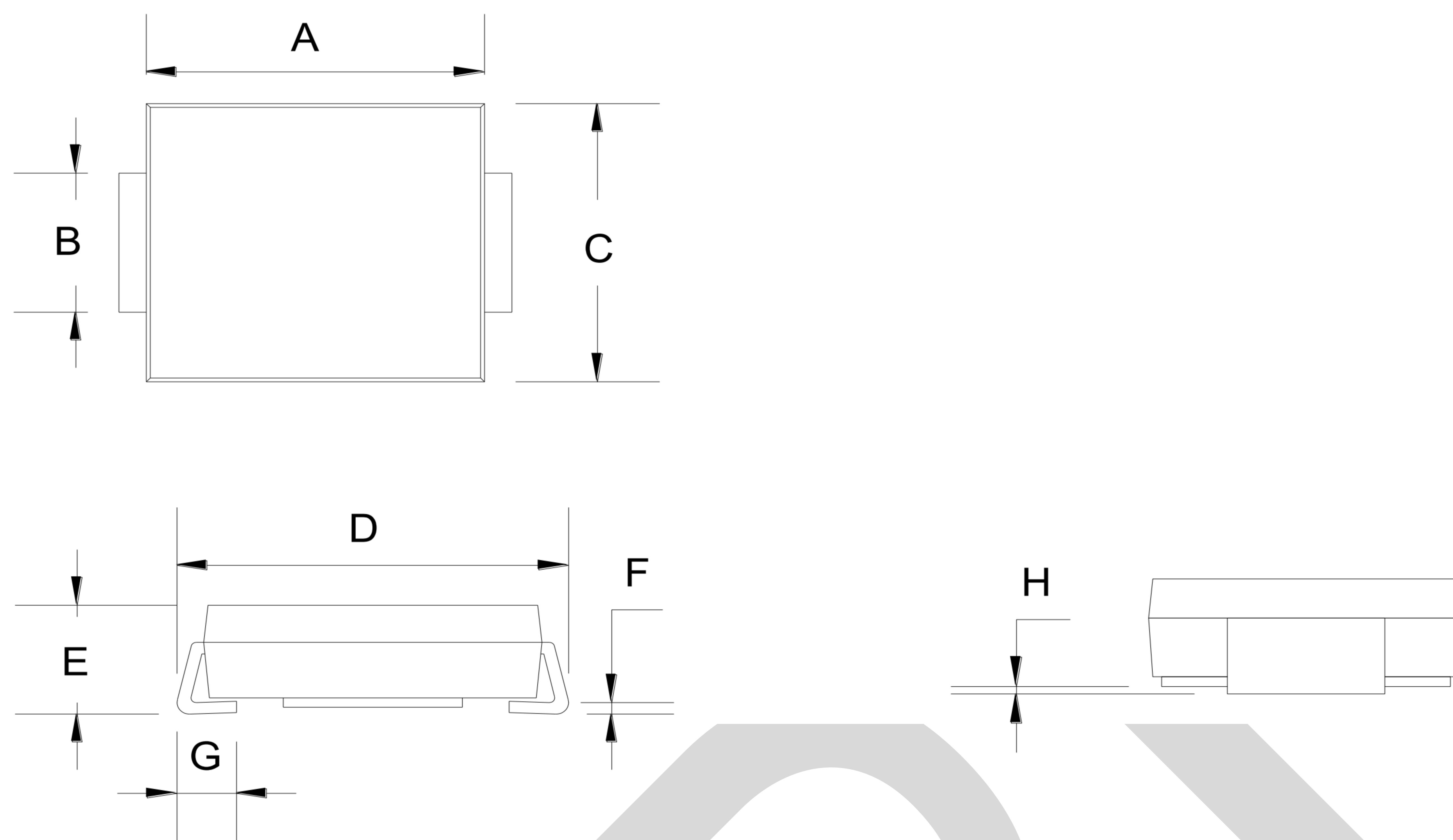


## Typical Reverse Current

## Typical Junction Capacitance

## PACKAGE OUTLINE DIMENSIONS

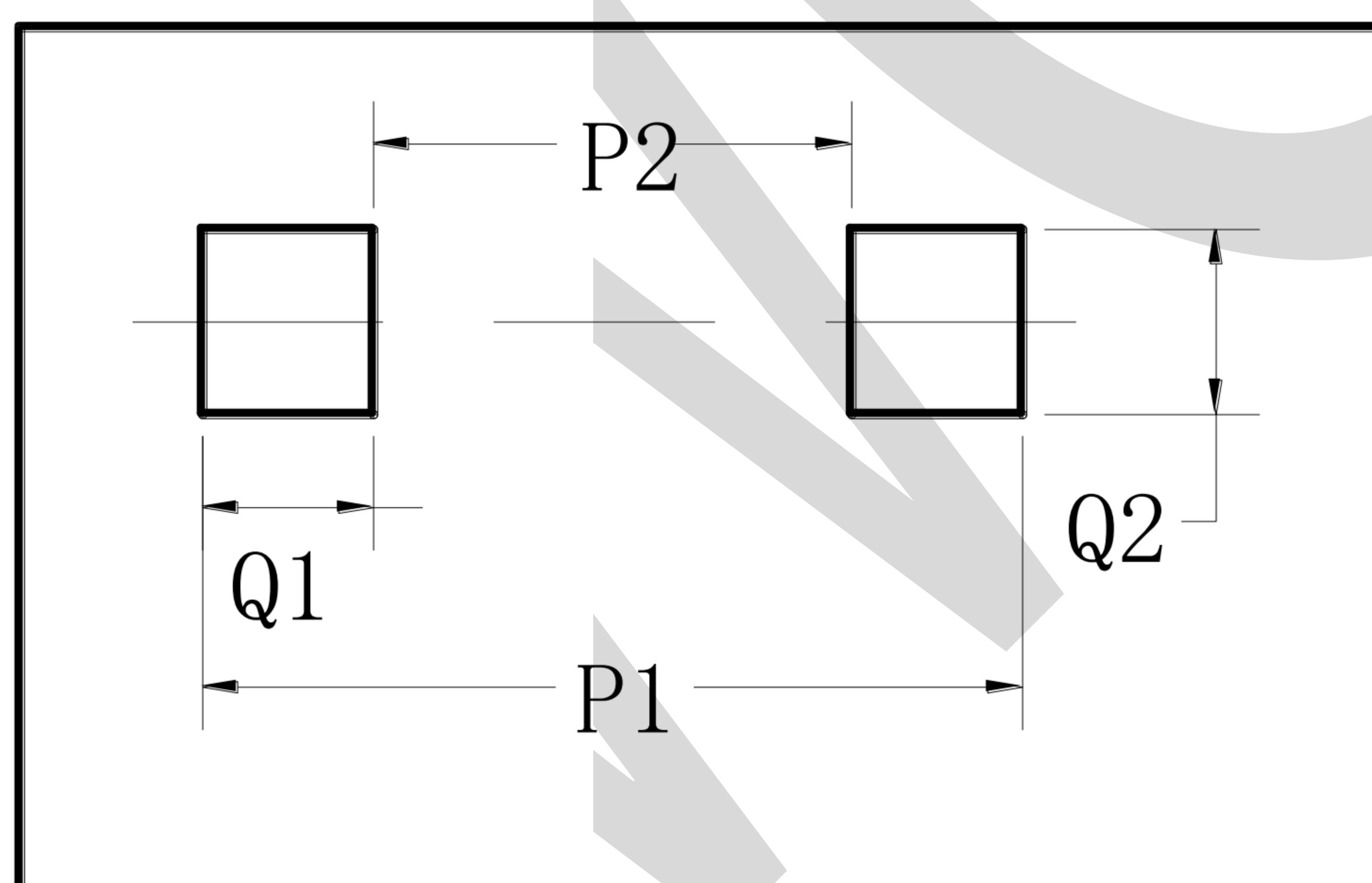
### DO-214AB(SMC)



SMC Mechanical Data

UNIT		A	B	C	D	E	F	G	H
mm	max	7.1	3.3	6.25	8.1	2.6	0.30	1.5	0.2
	min	6.6	2.8	5.6	7.7	2.0	0.15	0.75	0.1
mil	max	279.5	129.9	246.1	318.9	102.3	11.8	59.1	7.87
	min	259.8	110.2	220.5	303.1	78.7	5.90	29.5	3.93

### SMC Suggested Pad Layout



UNIT		P1	P2	Q1	Q2
mm	Typ	9.9	3.85	3.0	3.8
mil	Typ	389.7	151.5	118.1	149.6