



Features

- Average Forward Current: $I_{F(AV)}=5A$
- Polarity: Color band denotes cathode



SMC
(DO-214AB)

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
B520C-B560C	SMC (DO-214AB)	B5x0C	3000

x: From 2-6



Maximum Ratings (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Test Conditions	B5				
				20C	30C	40C	50C	60C
Repetitive Peak Reverse Voltage	V _{RRM}	V		20	30	40	50	60
Maximum RMS Voltage	V _{RMS}	V		14	21	28	35	42
Average Forward Current	I _{F(AV)}	A	60Hz Half-sine wave, Resistance load, FIG.1	5.0				
Surge(Non-repetitive)Forward Current	I _{FSM}	A	60Hz Half-sine wave, 1 cycle, Ta=25℃	100				
Junction Temperature	T _J	℃		-55~+125			-55~+150	
Storage Temperature	T _{STG}	℃		-55 ~ +150				

Electrical Characteristics (Ta=25 unless otherwise specified)

Item	Symbol	Unit	Test Condition		B5				
					20C	30C	40C	50C	60C
Peak Forward Voltage	V _F	V	I _F =5.0A		0.55			0.70	
Peak Reverse Current	I _{RRM1}	mA	V _{RM} =V _{RRM}	T _a =25℃	0.5				
	T _a =100℃			20					
Thermal Resistance(Typical)	R _{θJ-A}	℃/W	Between junction and ambient		50				
	R _{θJ-L}		Between junction and terminal		10				

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.27" x 0.27" (7.0 mm x 7.0 mm) copper pad areas



Typical Characteristics

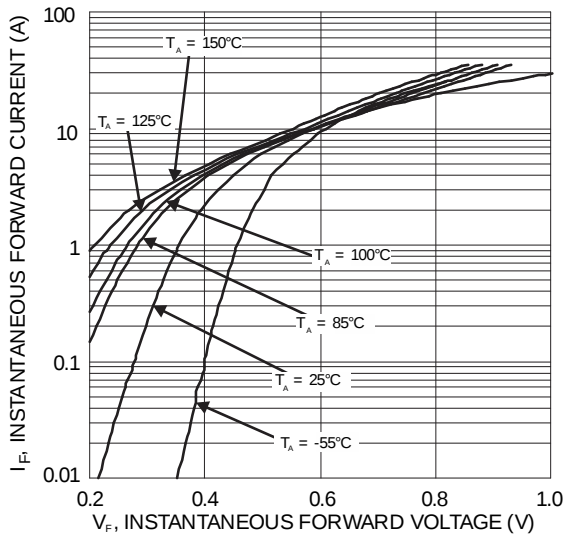


Figure 1 Typical Forward Characteristics (B520C - B540C)

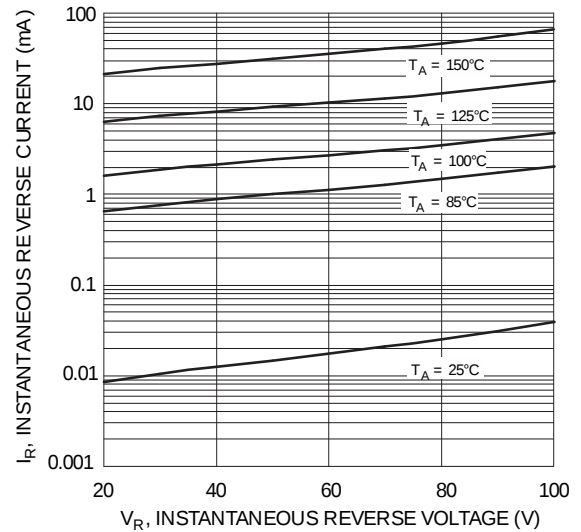


Figure 2 Typical Reverse Characteristics (B520C - B540C)

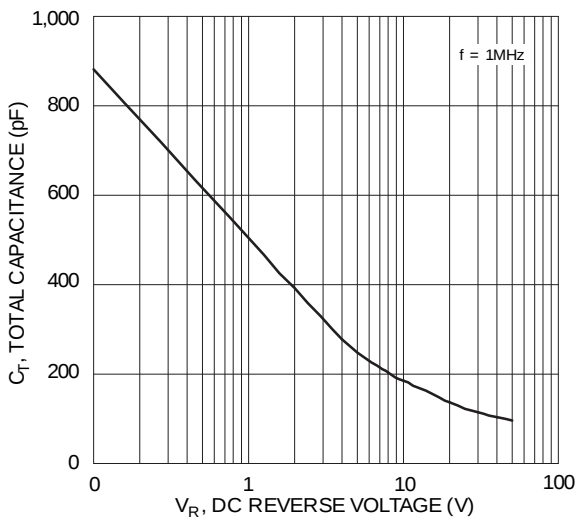


Figure 3 Total Capacitance vs. Reverse Voltage (B520C - B540C)

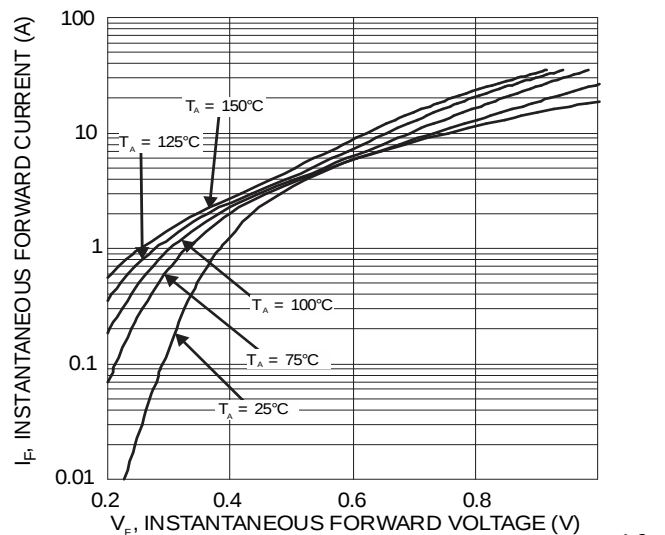


Figure 4 Typical Forward Characteristics (B550C-B560C)

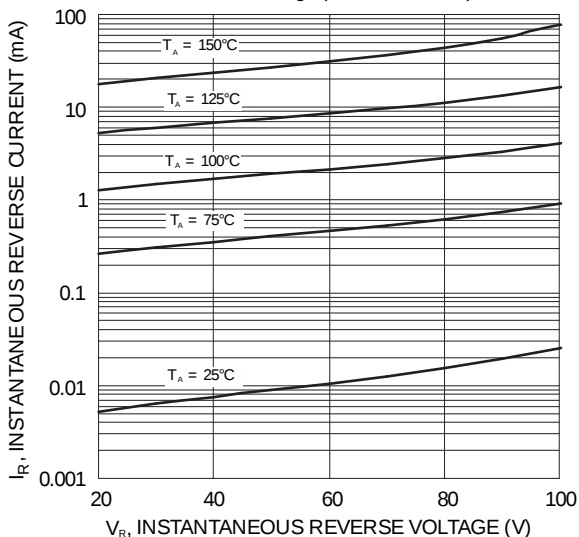


Figure 5 Typical Reverse Characteristics (B550C-B560C)

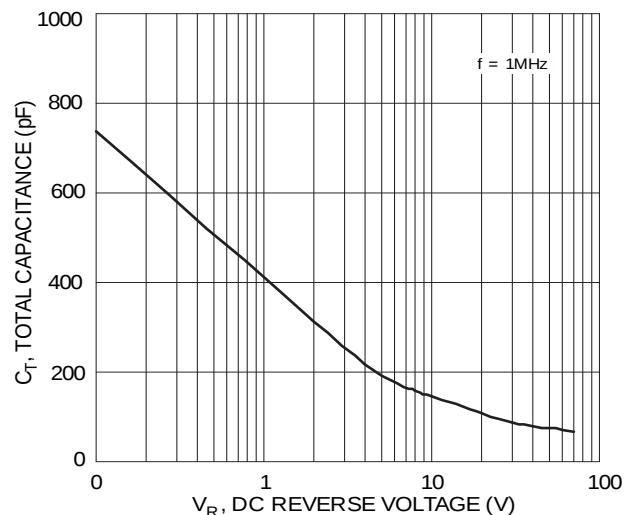
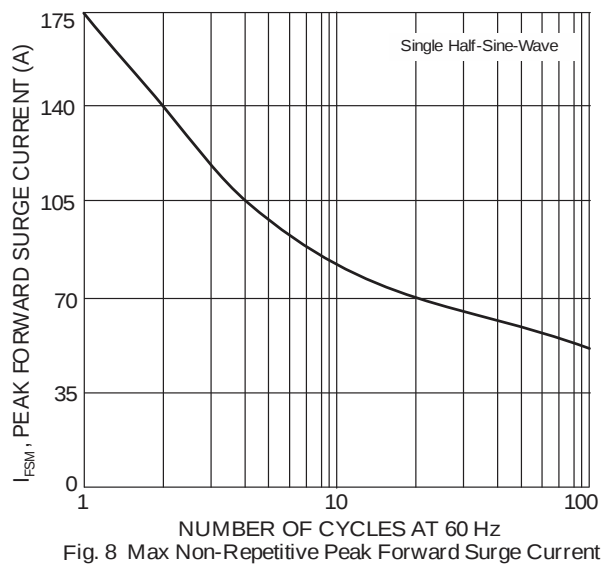
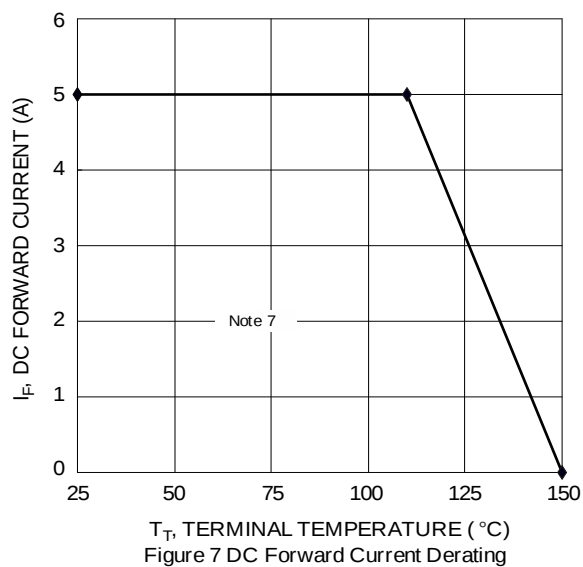
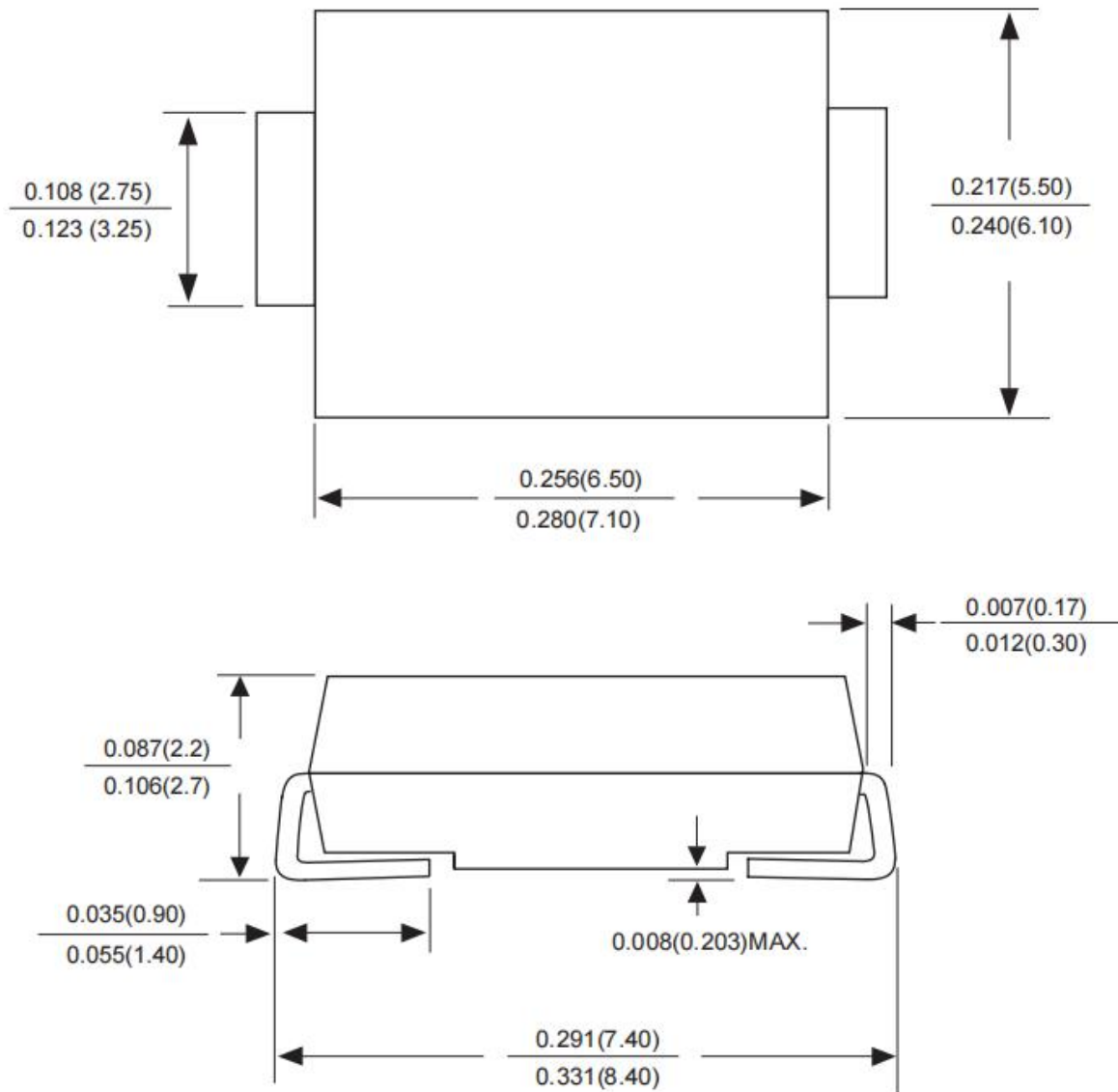


Figure 6 Total Capacitance vs. Reverse Voltage (B550C-B560C)





Package Outline Dimensions
SMC(DO-214AB)



Dimensions in inches and (millimeters)



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