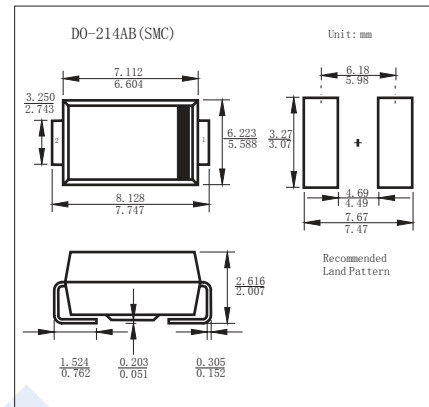


Schottky Diodes

SMC320 ~ SMC3100

■ Features

- Extremely Low V_F
- Low Stored Charge
- Low Power Loss - High Efficiency
- Majority Carrier Conduction



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	SMC 320	SMC 330	SMC 340	SMC 350	SMC 360	SMC 3100	Unit	
Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	100	V	
Working Peak Reverse Voltage	V_{RWM}	20	30	40	50	60	100		
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	100		
RMS Reverse Voltage	V_{RMS}	14	21	28	35	42	70		
Forward Voltage	V_F	0.5		0.55	0.7		0.85	A	
Averaged Forward Current	I_{FAV}	3							
Peak Forward Surge Current	I_{FSM}	100							
Maximum DC Reverse Current $T_c=25^\circ\text{C}$ $T_c=125^\circ\text{C}$	I_R	0.5						μA	
		2							
Typical Junction Capacitance	C_j	250			360		200	pF	
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	60						$^\circ\text{C/W}$	
Junction Temperature	T_J	125						150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-65 to 125						-65 to 150	

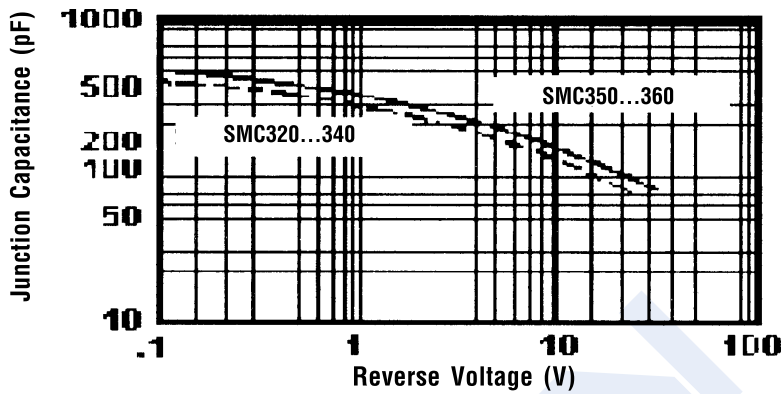
■ Marking

NO.	SMC320	SMC330	SMC340	SMC350	SMC360	SMC3100
Marking	SS32	SS33	SS34	SS35	SS36	SS310

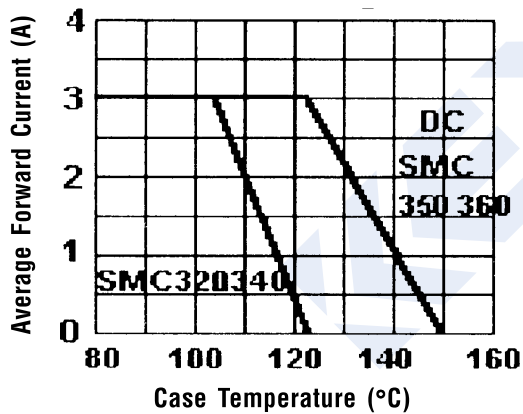
Schottky Diodes SMC320 ~ SMC3100

■ Typical Characteristics

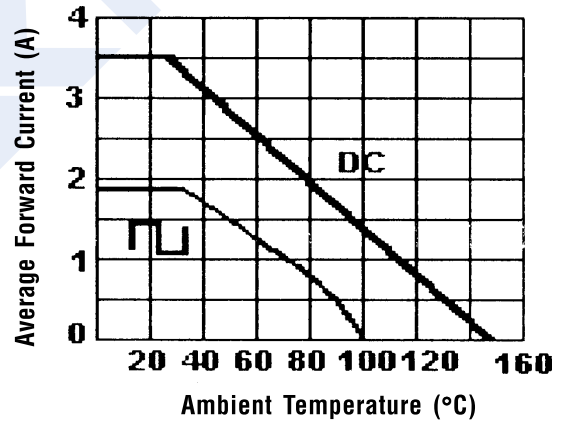
Typical Junction Capacitance



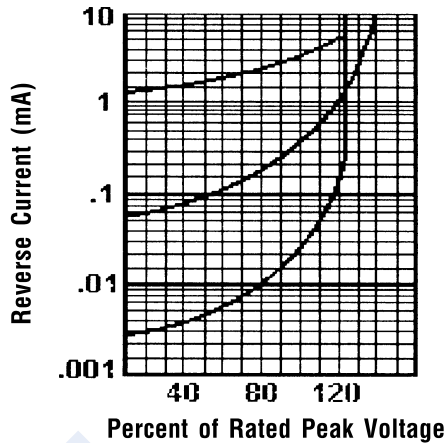
Forward Current Derating Curve



Forward Current Derating Curve



Typical Reverse Characteristics



Average Power Dissipation

