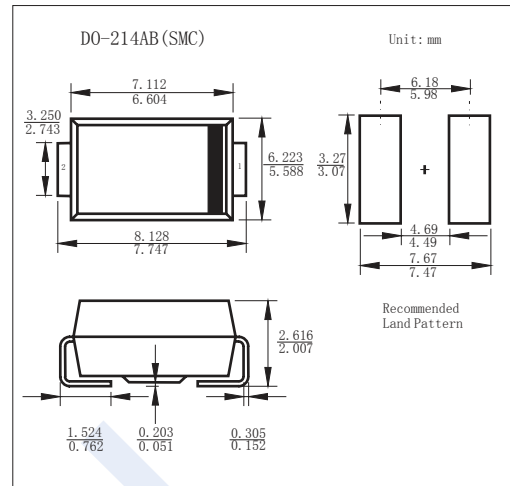


Schottky Diodes

B520C ~ B560C

■ Features

- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- Surge Overload Rating to 175A Peak
- Plastic Material - UL Flammability
- Classification 94V-0



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

Parameter	Symbol	B520C	B530C	B540C	B550C	B560C	Unit
Repetitive Peak Reverse Voltage	VRRM	20	30	40	50	60	V
Working Peak Reverse Voltage	VRWm	20	30	40	50	60	
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	
RMS Reverse Voltage	VRMS	14	21	28	35	42	
Forward Voltage @ $I_F=5\text{A}$	V _F	0.55			0.7		A
Average Rectified Output Current @ $T_T=90^\circ\text{C}$	I _{FAV}	5					
Peak Forward Surge Current @ 8.3ms	I _{FSM}	175					
Maximum DC Reverse Current $T_a=25^\circ\text{C}$ $T_a=100^\circ\text{C}$	I _R	0.5					mA
		20					
Typical Junction Capacitance (Note.1)	C _j	300					pF
Typical Thermal Resistance, Junction to Ambient	R _{θJA}	50					°C/W
Typical Thermal Resistance, Junction to Terminal	R _{θJT}	10					
Junction Temperature	T _j	125					°C
Storage Temperature	T _{stg}	-55 to 150					

Note.1: Measured at 1MHz and applied reverse voltage of 4V D.C

■ Marking

NO.	BC520C	BC530C	BC540C	BC550C	BC560C
Marking	BC520C	BC530C	BC540C	BC550C	BC560C

Schottky Diodes

B520C ~ B560C

Typical Characteristics

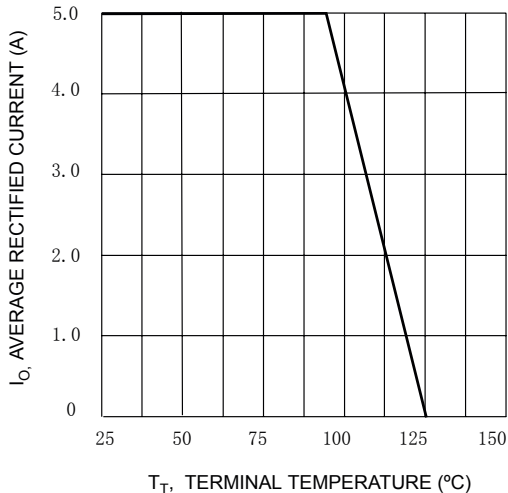


Fig. 1 Forward Current Derating Curve

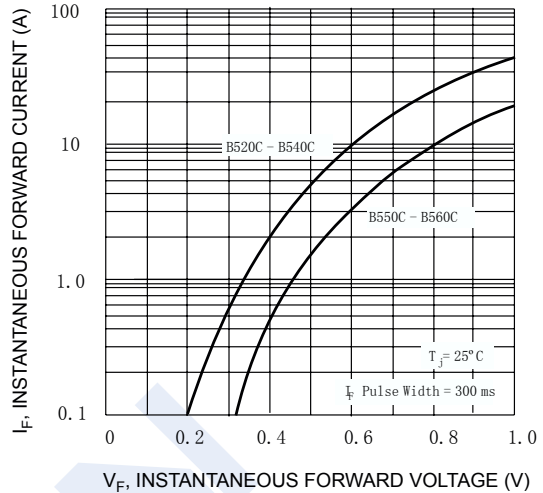


Fig. 2 Typical Forward Characteristics

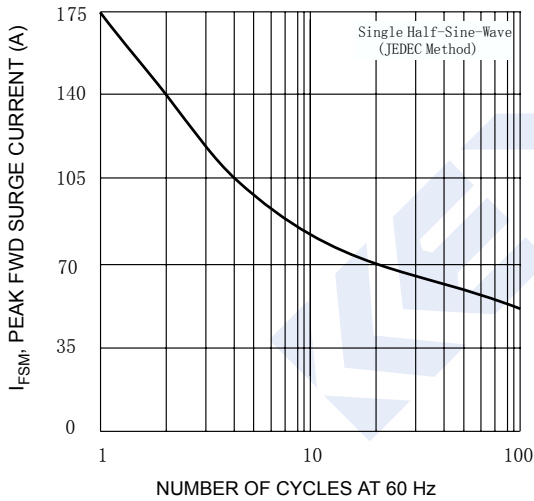


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

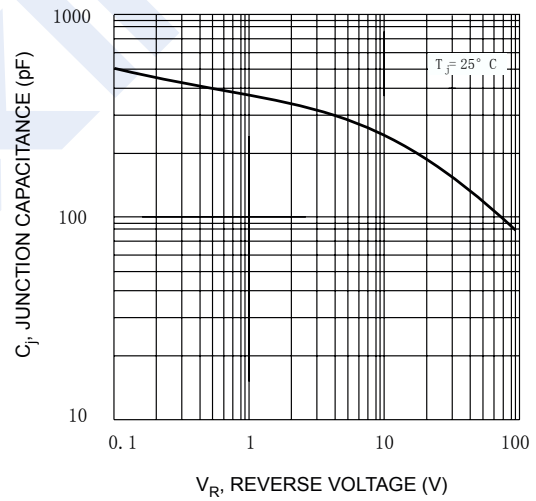


Fig. 4 Typical Junction Capacitance

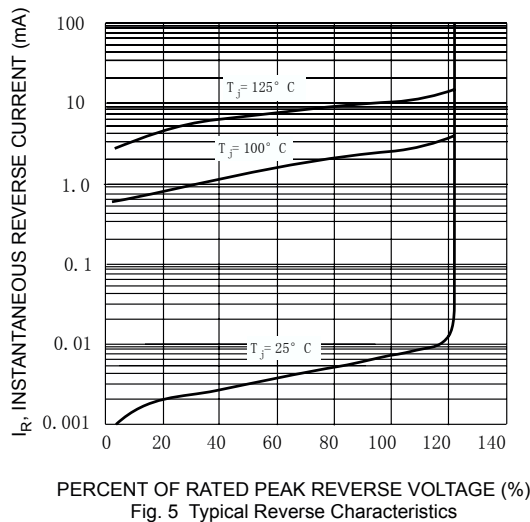


Fig. 5 Typical Reverse Characteristics