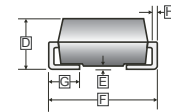
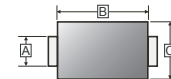


RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

**FEATURES**

- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering : 250°C for 10 Seconds at Terminals
- Low Reverse Current

**SMB (DO-214AA)**



**MECHANICAL DATA**

- Case: Molded Plastic
- Epoxy: UL 94V-0 Rate Flame Retardant
- Lead: Axial Leads, Solderable per MIL-STD-202 Method 208 Guaranteed
- Polarity: Color Band Denotes Cathode End
- Mounting Position: Any

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.91	2.20	E	-	0.203
B	4.06	4.70	F	5.08	5.59
C	3.30	3.94	G	0.76	1.52
D	2.13	2.44	H	0.15	0.305

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating 25°C ambient temperature unless otherwise specified.  
 Single phase half wave, 60Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.

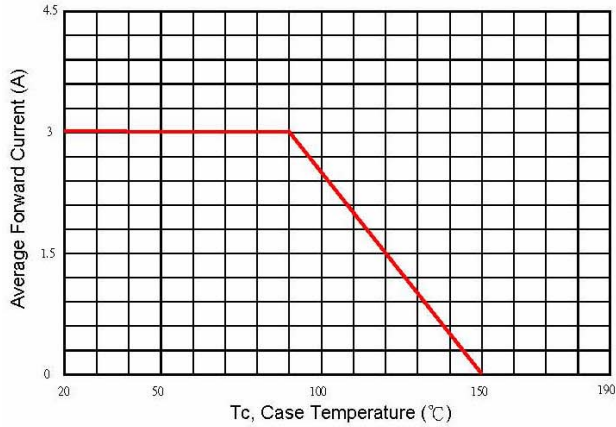
TYPE NUMBER	SYMBOL	SM3150B	UNITS
Peak Repetitive Peak reverse voltage	$V_{RRM}$	150	V
Working Peak Reverse Voltage	$V_{RWM}$		
Maximum DC Blocking Voltage	$V_R$		
Average Forward Current @ $T_J=25^\circ\text{C}$	$I_{F(AV)}$	3	A
Peak Forward Current @ 8.3 ms Half Sine	$I_{FSM}$	100	A
Maximum Instantaneous Forward Voltage $V_F$ @ $I_{FM} = 3.0\text{ A}$	$V_F$	$T_A = 25^\circ\text{C}$	V
		$T_A = 75^\circ\text{C}$	
		$T_A = 125^\circ\text{C}$	
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	@ $T_J = 25^\circ\text{C}$	mA
		@ $T_J = 100^\circ\text{C}$	
Typical Junction Capacitance <sup>1</sup>	$C_J$	90	pF
Typical Thermal Resistance <sup>2</sup>	$R_{\theta JA}$	50	°C/W
Voltage Rate of Change (Rated $V_R$ )	$dv/dt$	1000	V/ $\mu\text{s}$
Operating Temperature Range	$T_J$	-50~150	°C
Storage temperature	$T_{STG}$	-65~150	°C

NOTES:

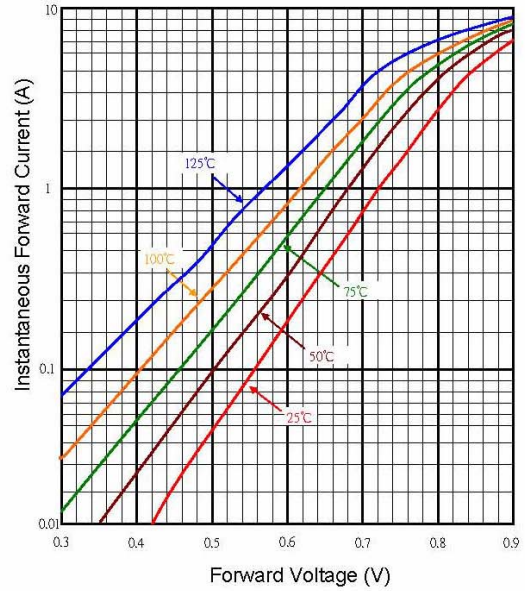
1. Measured at 1MHz and applied reverse voltage of 5.0 V D.C.
2. Thermal Resistance Junction to Ambient.

**RATINGS AND CHARACTERISTIC CURVES**

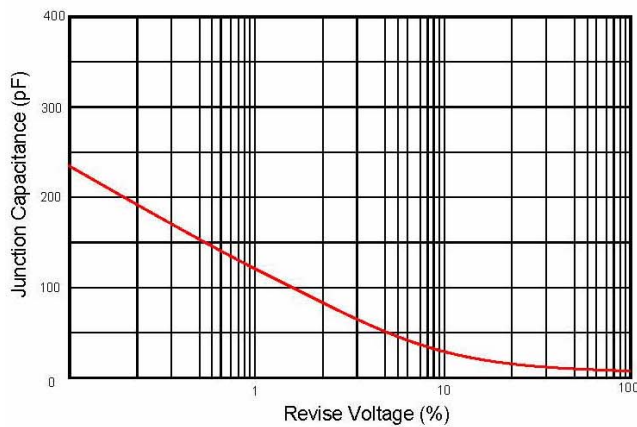
Typical Forward Current Derating Curve



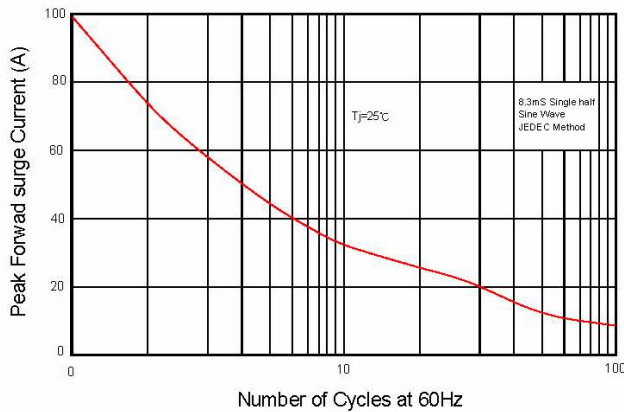
Typical Forward Characteristic



Typical Junction Capacitance



Maximum Non- Repetitive Forward Surge Current



Typical Reverse Characteristic

