SBT55LAFC	
Surface Mount Low VF Schottky Barrier RectifierVoltage50 VCurrent5 A	SMAF-C
Features	
 Low forward voltage drop Low power loss, high efficiency High surge current capability Lead free in compliance with EU RoHS 2.0 	
 Green molding compound as per IEC 61249 standard 	
Mechanical Data	
 Case : SMAF-C plastic Terminals : Solderable per MIL-STD-750, Method 2026 	Cathode Anode

• Approx. Weight : 0.0012 ounces, 0.034 grams

Maximum Ratings and Thermal Characteristics (T_A = 25^oC unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	V
Maximum RMS Voltage	V _{RMS}	35	V
Maximum DC Blocking Voltage	VR	50	V
Maximum Average Forward Rectified Current	IF(AV)	5	А
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	I _{FSM}	80	А
(Note 1) Typical Thermal Resistance (Note 2)	Reja Rejl	150 22	°C/W
Operating Junction Temperature Range	TJ	-55 to +150	٥C
Storage Temperature Range	T _{STG}	-55 to +150	٥C



Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

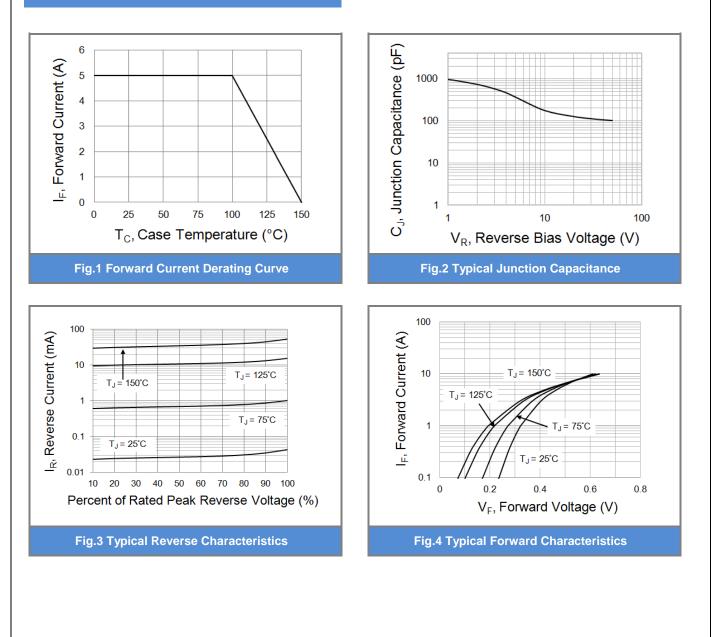
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	VF	$I_F = 1 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	0.32	-	V	
		$I_F = 2 A, T_J = 25 \circ C$	-	0.37	-		
		I _F = 5 A, T _J = 25 °C	-	0.45	0.5		
		$I_F = 1 \text{ A}, T_J = 125 ^{\circ}\text{C}$	-	0.2	-		
		I _F = 2 A, T _J = 125 °C	-	0.29	-		
Reverse Current ^(Note 3)	IR	V _R = 40 V, T _J = 25 °C	-	30	-		
		V _R = 50 V, T _J = 25 °C	-	-	100	uA	
		V _R = 50 V, T _J = 125 °C	-	15	-	mA	

NOTES :

- 1. Mounted on a FR4 PCB, single-sided copper, standard footprint.
- 2. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.
- 3. Short duration pulse test used to minimize self-heating effect.



TYPICAL CHARACTERISTIC CURVES

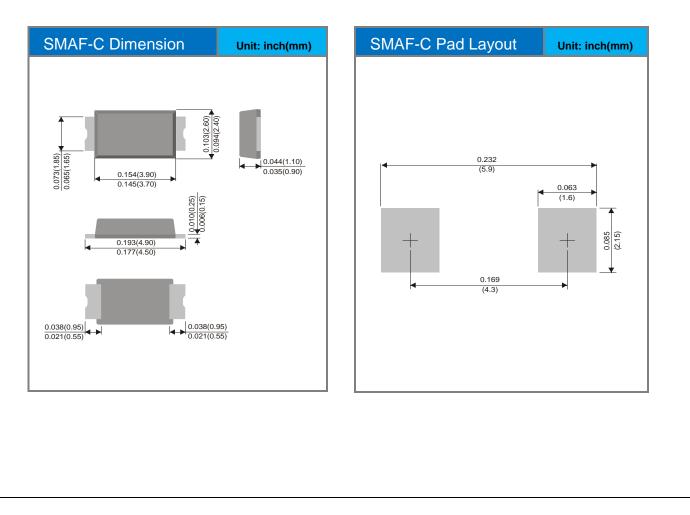




Product and Packing Information

Part No.	Package Type	Packing Type	Marking
SBT55LAFC	SMAF-C	3K pcs / 7" reel	SBT55L

Packaging Information & Mounting Pad Layout





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