A LOW VF SCHOTTKY BARRIER RECTIFIER
tage 150 V Current 10 A
ures
a low forward voltage drop, low power loss
n efficiency operation
power loss, high efficiency
n surge current capability
d free in compliance with EU RoHS 2.0
en molding compound as per IEC 61249 standard
hanical Data
e: TO-263 Package
minals: Solderable per MIL-STD-750, Method 2026
rox. Weight: 0.049 ounces, 1.38 grams

Maximum Ratings and Thermal Characteristics ($T_A = 25 \degree C$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	150	V
Maximum Rms Voltage	V _{RMS}	105	V
Maximum Dc Blocking Voltage	V _{DC}	150	V
Maximum Average Forward Current	I _{F(AV)}	10	А
Peak Forward Surge Current: 8.3 ms Single Half Sine- Wave Superimposed On Rated Load	I _{FSM}	150	A
Typical Junction Capacitance Measured at 1 MHz And Applied VR = 4V	CJ	260	pF
Typical Thermal Resistance	$R_{\theta JC}^{(1)}$	2	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C





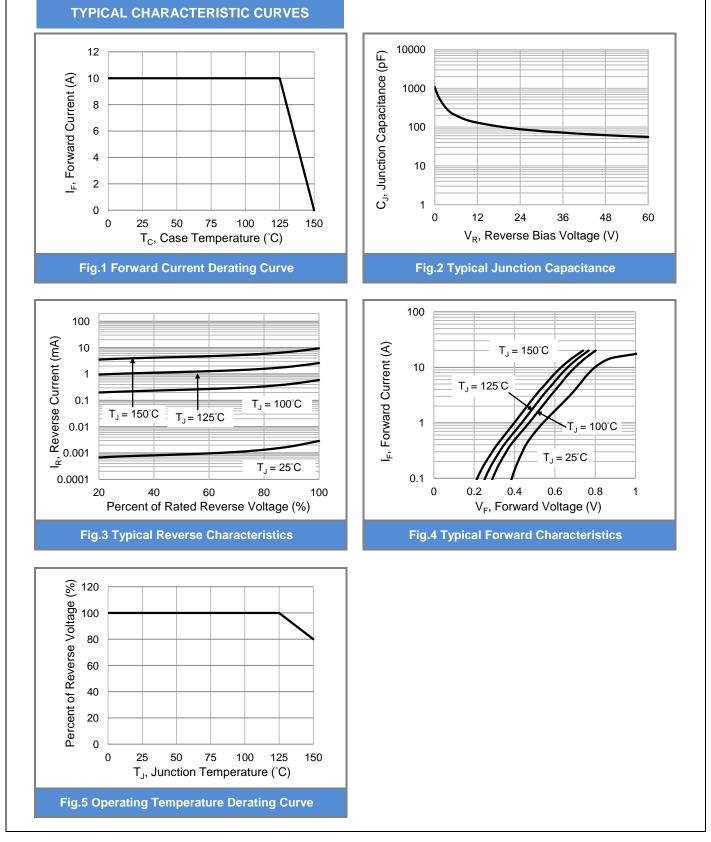




PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	$I_{F} = 1 \text{ A}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	0.54	-	V
		I _F = 5 A, T _J = 25 °C	-	0.72	-	
		$I_{\rm F} = 10 \text{ A}, \text{ T}_{\rm J} = 25 ^{\circ}\text{C}$	-	-	0.85	
		$I_F = 1 \text{ A}, \text{ T}_J = 125 ^{\circ}\text{C}$	-	0.44	-	
		$I_F = 5 \text{ A}, \text{ T}_J = 125 ^{\circ}\text{C}$	-	0.59	-	
		I _F = 10 A, T _J = 125 °C	-	0.66	-	
Reverse Current	I _R ⁽²⁾	$V_R = 120 \text{ V}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	1.5	-	uA
		$V_{R} = 150 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	40	
		V _R = 150V,T _J = 125 °C	-	3	-	mA

NOTES:

- 1. Device mounted on a infinite heatsink.
- 2. Short duration pulse test used to minimize self-heating effect.



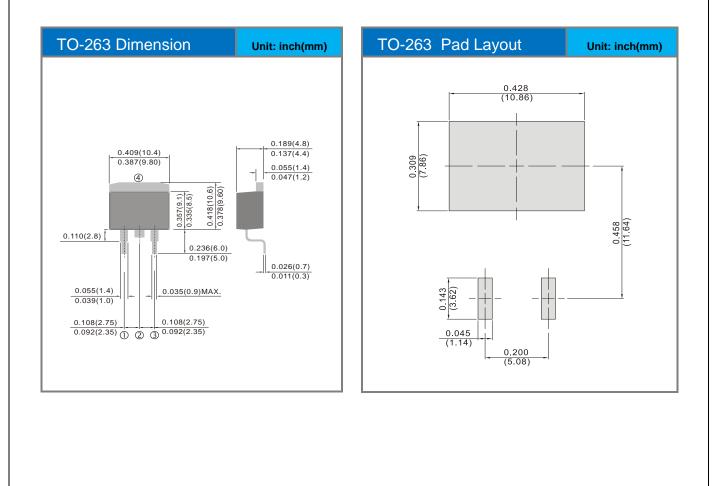




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SBT10150LSB_R2_00001	TO-263	800 pcs / 13" reel	SBT10150LSB	Halogen free

Packaging Information & Mounting Pad Layout





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