



SCHOTTKY BARRIER RECTIFIER

Voltage

100 V

Current

60 A

Features

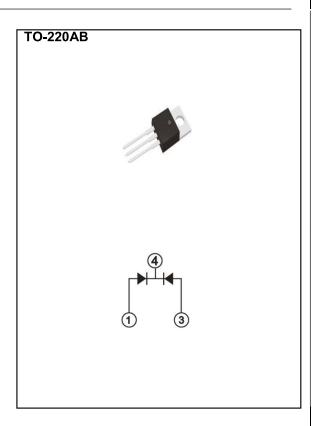
- Deal for automated placement
- Low power loss, high efficiency
- High surge current capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

• Case: TO-220AB Package

• Terminals: Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.067 ounces, 1.89 grams



Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS		
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	100	V	
Maximum Rms Voltage		V _{RMS}	70	V	
Maximum Dc Blocking Voltage		V_{DC}	100	V	
Maximum Average Forward Current	per device		60	А	
	per diode	I _{F(AV)}	30		
Peak Forward Surge Current: 8.3 ms Single Half Sine-		_	220	A	
Wave Superimposed On Rated Load		I _{FSM}	320		
Typical Thermal Resistance		R _{0JC} (1)	2	°C/W	
Operating Junction Temperature Range		T _J	-55~150	°C	
Storage Temperature Range		T _{STG}	-55~150	°C	





Electrical Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	I _F = 5 A, T _J = 25 °C	-	0.49	-	V
		I _F = 10 A, T _J = 25 °C	-	0.56	-	
		I _F = 15 A, T _J = 25 °C	-	-	0.71	
		I _F = 30 A, T _J = 25 °C	-	-	0.86	
		I _F = 5 A, T _J = 125 °C	-	0.43	-	
		I _F = 10 A, T _J = 125 °C	-	0.53	-	
		I _F = 30 A, T _J = 125 °C	-	0.71	-	
Reverse Current	I _R ⁽²⁾	$V_R = 70 \text{ V}, T_J = 25 ^{\circ}\text{C}$	-	5	-	uA
		V _R = 100 V, T _J = 25 °C	-	-	50	
		V _R = 100V,T _J = 125 °C	-	7	_	mA

NOTES:

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





TYPICAL CHARACTERISTIC CURVES

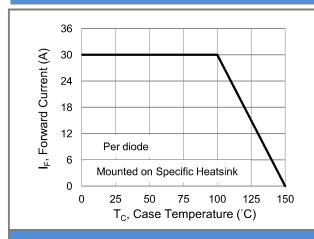


Fig.1 Forward Current Derating Curve

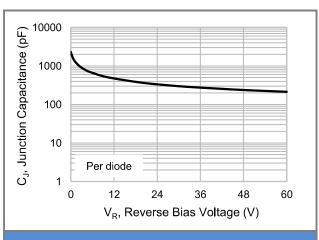


Fig.2 Typical Junction Capacitance

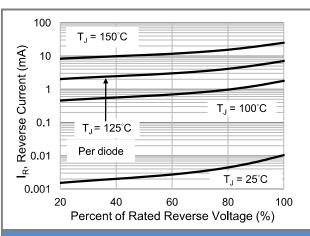


Fig.3 Typical Reverse Characteristics

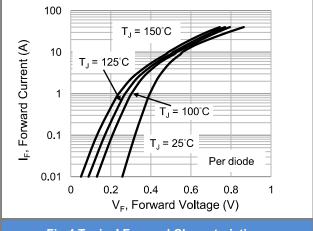


Fig.4 Typical Forward Characteristics

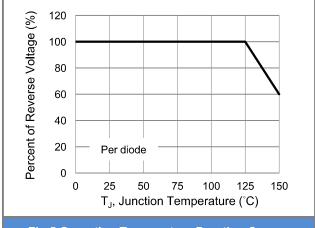


Fig.5 Operating Temperature Derating Curve

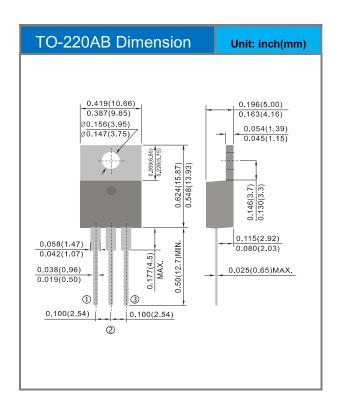




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SBT60100CT_T0_00001	TO-220AB	50pcs / Tube	SBT60100CT	Halogen free

Packaging Information & Mounting Pad Layout







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