



ULTRA LOW VF SCHOTTKY BARRIER RECTIFIER

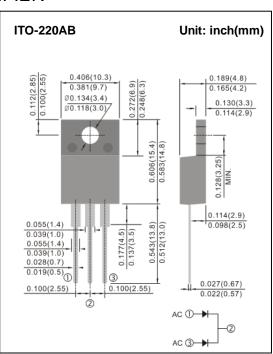
Voltage 100 V Current 30 A

Features

- Ultra low forward voltage drop, low power loss
- High efficiency operation
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std.. (Halogen Free)

Mechanical Data

- Case: Molded plastic, ITO-220AB
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.056 ounces, 1.6 grams



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

PARAMETER		SYMBOL	LIMIT	UNIT
Maximum repetitive peak reverse voltage		Vrrm	100	V
Maximum rms voltage		VRMS	70	V
Maximum dc blocking voltage		VR	100	V
Maximum average forward rectified current	per device	lf(AV)	30	А
	per diode		15	
Peak forward surge current : 8.3ms single half sine-		IFSM	050	А
wave superimposed on rated load			250	
Typical thermal resistance (Note 1)	R _{θJC}	5.5	°C/W	
Operating junction temperature range	Тл	-55 to +150	°C	
Storage temperature range		Тѕтс	-55 to +150	°C

Note: 1. Device mounted on a infinite heatsink, then measured the center of the marking side.





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

PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNITS
Breakdown voltage	V_{BR}	I _R =0.5mA	T _J =25°C	100	-	-	V
Instantaneous forward voltage	V _F	I _F =5A	T _J =25°C	-	0.48	-	V
		I _F =10A		-	0.57	-	
		I _F =15A		-	0.66	0.71	
		I _F =5A	TJ=125°C	-	0.41	-	V
		I _F =10A		-	0.53	-	
Reverse current		V _R =70V	T _J =25°C		5	-	μА
	I _R		T _J =125°C	-	6		mA
		V _R =100V	T _J =25°C	-	-	120	μА
			T _J =125°C	-	12	-	mA





TYPICAL CHARACTERISTIC CURVES

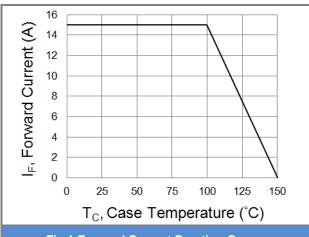


Fig.1 Forward Current Derating Curve

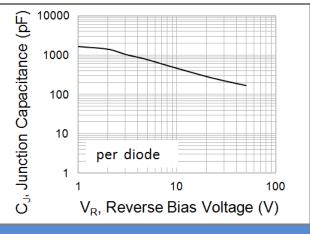


Fig.2 Typical Junction Capacitance

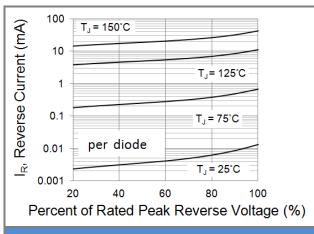


Fig.3 Typical Reverse Characteristics

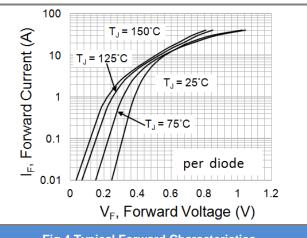


Fig.4 Typical Forward Characteristics

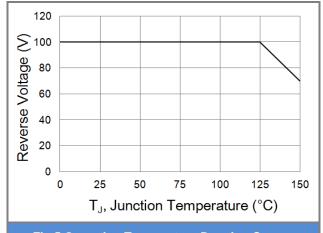


Fig.5 Operating Temperature Derating Curve





Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SBT30100UFCT_T0_00001	ITO-220AB	50pcs / Tube	SBT30100UFCT	Halogen free





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