

# SBF20V60CT

### SCHOTTKY BARRIER RECTIFIERS

### **REVERSE VOLTAGE - 60 Volts** FORWARD CURRENT - 20 Amperes

### **FEATURES**

- Metal of silicon rectifier, majority carrier conduction
- · Guard ring for transient protection
- · Low power loss, high efficiency
- High current capability, low VF
- · High surge capability
- Plastic package has UL flammability classification
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

### **MECHANICAL DATA**

• Case: ITO-220AB molded plastic • Polarity: As marked on the body • Weight: 0.06 ounces, 1.70 grams

Mounting position: Any

• Max. mounting torque = 0.5 N.m (5.1 Kgf-cm)

# **ITO-220AB**

ITO-220AB						
DIM.	MIN.	MAX.				
Α	15.50	16.50				
В	10.0	10.40				
С	3.00	3.50				
D	9.00	9.30				
E	2.90	3.60				
F	13.46	14.22				
G	1.15	1.70				
Н	2.40	2.70				
I	0.75	1.00				
J	0.45	0.70				
K	3.00Ø	3.30 Ø				
L	4.36	4.77				
М	2.48	2.80				
N	2.50	2.80				
All Dimensions in millimeter						

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

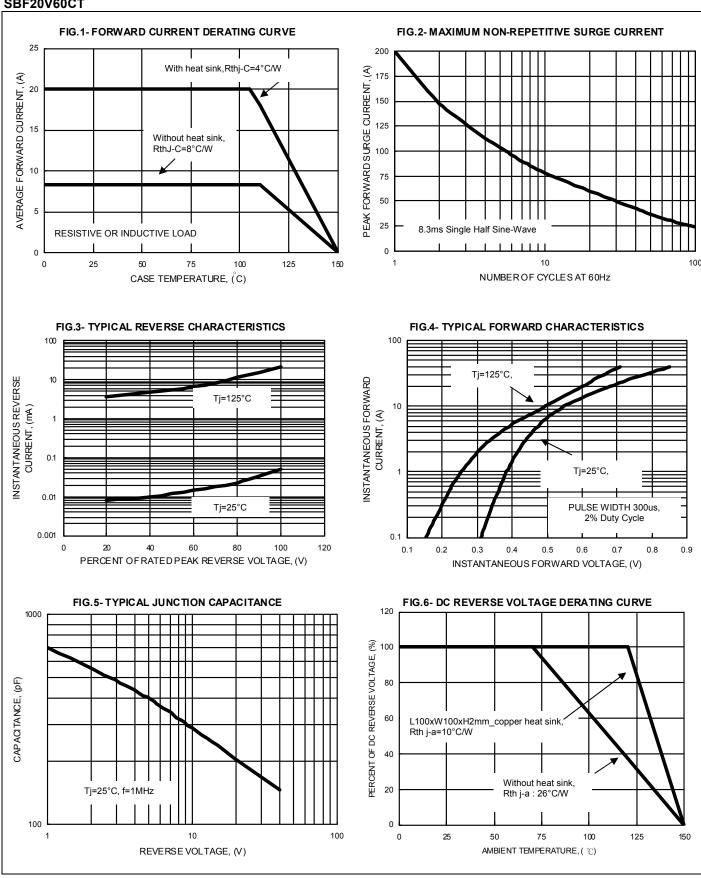
Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYN	MBOL	SBF20V60CT		UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>F</sub>	RRM	60		V
Maximum RMS Voltage	V <sub>I</sub>	RMS	42		V
Maximum DC Blocking Voltage	V	/ <sub>DC</sub>	60		V
Maximum Average Forward Rectified Current(See Fig.1)	DTC=85°C I <sub>(</sub>	(AV)	20		Α
Peak Forward Surge Current 8.3ms single half s superimposed on rated load	ine-wave I <sub>F</sub>	FSM	200		Α
	TJ=25°C TJ=125°C	VF	0.60 0.55		٧
	TJ=25°C TJ=125°C	I <sub>R</sub>	0.1 25		mA
Typical Junction Capacitance per element (Note 2)		CJ	430		ьE
Typical thermal resistance _ Junction to Case (Note 3)		⊕JC	4		°C/W
Typical thermal resistance _ Junction to Lead (Note 3)		l⊖JL	3		°C/W
Typical thermal resistance _ Junction to Ambient (Note 3)		⊖ЈА	10		°C/W
Operating junction temperature range		TJ	-55 to +150		°C
Storage temperature range		STG	-55 to +150		°C
Dielectric Strength from terminals to case, AC with t=1 minute, RH<30%		/ <sub>dis</sub>	2000		V
Note :		Į.	REV. 1, Oct	REV. 1, Oct-2010, KTHC86	

- (1) 300us Pulse Width, 2% Duty Cycle..(2) Measured at 1.0MHz and applied reverse voltage of 4.0 V DC
- (3) Device mounted on copper heatsink, dimension: L 100 x W 100 x H 2 mm.



# RATING AND CHARACTERISTIC CURVES SBF20V60CT





## **Important Notice and Disclaimer**

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.