MAX.

16.50

2.80

2.50

All Dimensions in millimeter

### SCHOTTKY BARRIER RECTIFIERS

# REVERSE VOLTAGE – 50 to 60 Volts FORWARD CURRENT – 10 Amperes

**ITO-220AB** 

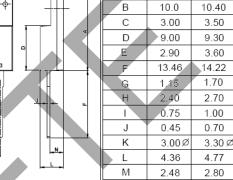
### **FEATURES**

- 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 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- · Lead-Free Finish; RoHS Compliant (Notes 1 & 2)

### **MECHANICAL DATA**

- Package: ITO-220AB molded plastic
  Polarity: As marked on the body
  Weight: 0.06 ounces, 1.70 grams
- · Mounting position: Any
- Max. mounting torque = 0.5N.m (5.1Kgf-cm)

# DIM. MIN. A 15.50 B 10.0 C 3.00



Ν

# PIN 1 o PIN 2

### **MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

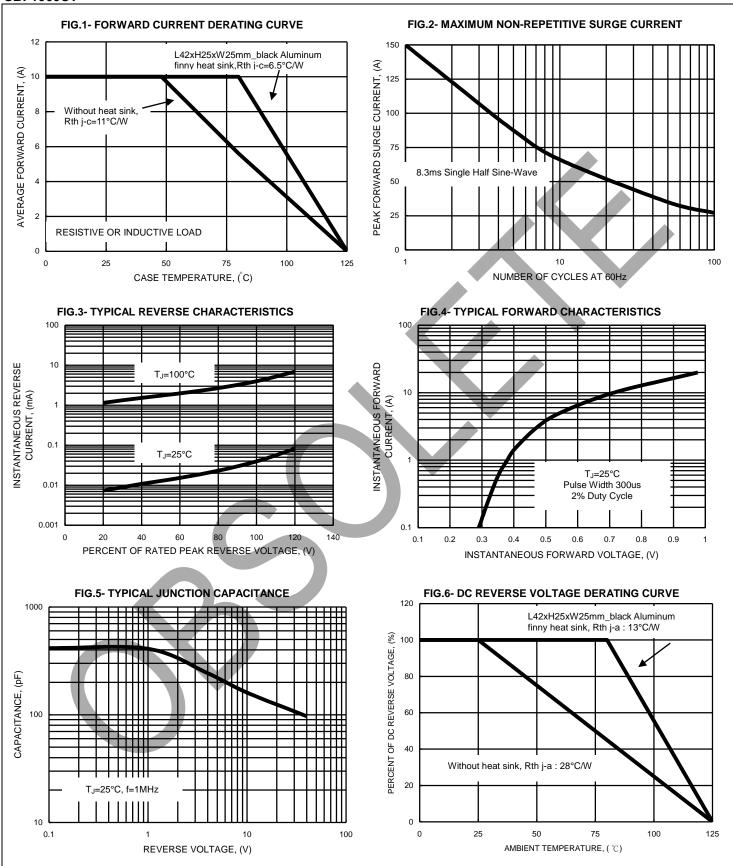
Ratings at +25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	SBF1060CT	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	60	V
Maximum RMS Voltage	VRMS	42	V
Maximum DC Blocking Voltage	VDC	60	V
Maximum Average Forward Rectified Current (See Fig.1)  @Tc=+80°C	I(AV)	10	Α
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	IFSM	150	Α
Maximum Forward Voltage at 5A DC (Note 3)	VF	0.7	٧
Maximum DC Reverse Current @TJ=+25°C at Rated DC Blocking Voltage @TJ=+100°C	I <sub>R</sub>	0.3 30	mA
Typical Junction Capacitance per Element (Note 4)	CJ	250	pF
Typical Thermal Resistance_Junction to Lead (Note 5)	R⊖JL	4.5	°C/W
Operating Junction Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	Tstg	-55 to +150	°C
Dielectric Strength from Terminals to Case AC with t = 1 Minute, RH < 30%	Vdis	2000	V

### Notes

- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. 300us Pulse Width, 2% Duty Cycle.
- 4. Measured at 1.0MHz and applied reverse voltage of 4.0 V DC.
- 5. Thermal Resistance Junction to Lead with L42 x H25 x W25mm\_black aluminum finny heat sink.



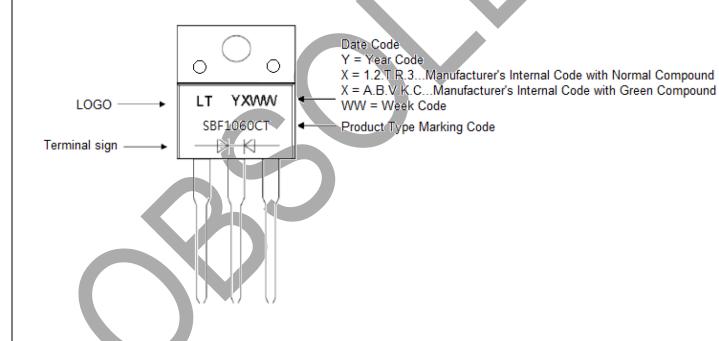




### **Ordering Information:**

Part Number	Pookogo	Packing		
	Package	Qty.	Carrier	
SBF1060CT	ITO-220AB	50pcs	Tube	

### **Marking Information:**



# BSOLETE - PART DISCONTINUED

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