#### SCHOTTKY BARRIER RECTIFIERS

### **REVERSE VOLTAGE - 50 to 60 Volts FORWARD CURRENT – 20 Amperes**

**ITO-220AB** 

#### **FEATURES**

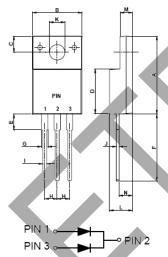
- · Metal of silicon rectifier, majority carrier conduction
- Guard ring for transient protection
- · Low power loss, high efficiency
- · High current capability, low VF
- · High surge capability
- Plastic package has UL flammability classification 94V-0
- · For use in low voltage, high frequency inverters, 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 = 0.5 N.m (5.1 Kgf-cm)



ITO-220AB					
DIM.	MIN.	MAX.			
A	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			
- 1	0.75	1.00			
J	0.45	0.70			
K	3.00Ø	3.30 Ø			
L	4.36	4.77			
M	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.

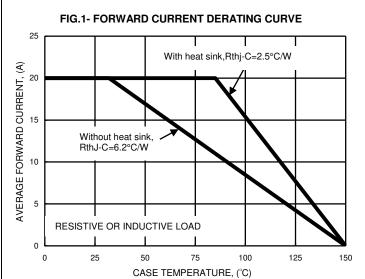
PARAMETER	SYMBOL	SBF2050CT	SBF2060CT	UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	60	V
Maximum RMS Voltage	VRMS	35	42	٧
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	60	٧
Maximum Average Forward Rectified Current(See Fig.1)  @TC=85°C	I <sub>(AV)</sub>	20		Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	22	25	Α
Maximum Forward Voltage at 10A DC (Note 3)	VF	0.	75	٧
Maximum DC Reverse Current @TJ=25°C at Rated DC Blocking Voltage @TJ=100°C	IR	0.		mA
Typical Junction Capacitance per element (Note 4)	CJ	50	00	РF
Typical thermal resistance _ Junction to Lead (Note 5)	Rejc	2.	.5	°C/W
Operating junction temperature range	TJ	-55 to	+150	°C
Storage temperature range	Tstg	-55 to	+150	°C
Dielectric Strength from terminals to case, AC with t=1 minute, RH<30%	V <sub>dis</sub>	20	00	٧

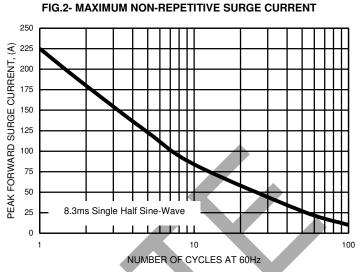
#### Notes:

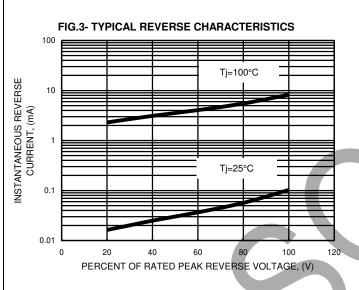
- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. 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 Case, device mounted on L200xW200xH5mm\_black Aluminum finny heat sink.

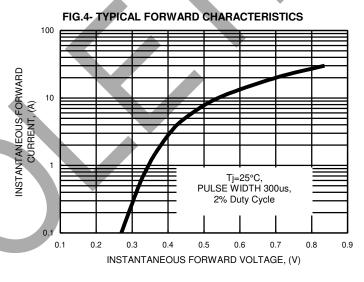
# DECDES.

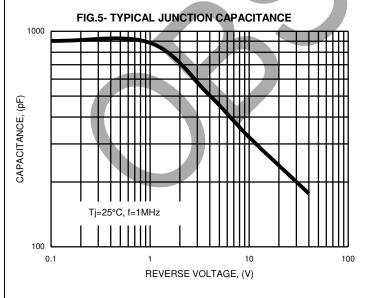
# RATING AND CHARACTERISTIC CURVES SBF2060CT

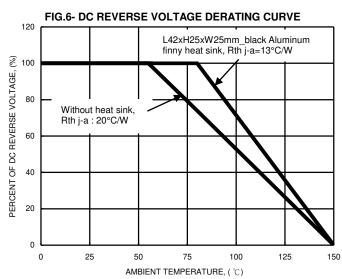










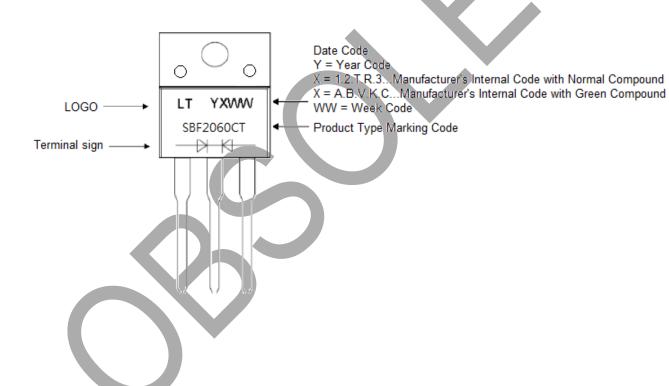




# **Ordering Information:**

Part Number	Package	Packing		
		Qty.	Carrier	
SBF2060CT	ITO-220AB	50pcs	Tube	

# **Marking Information:**





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