

SBF1050CT thru 1060CT

ITO-220AB

REVERSE VOLTAGE - 50 to 60 Volts FORWARD CURRENT - 10 Amperes

SCHOTTKY BARRIER RECTIFIERS

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 94\/-0
- 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)

PIN 1 2 3 F



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

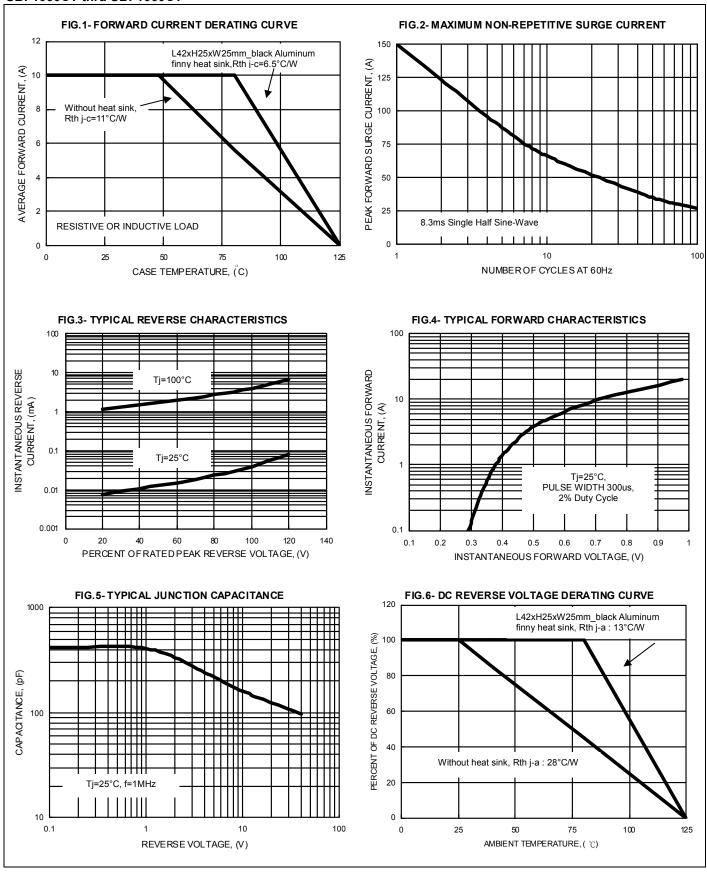
PARAMETER	SYMBOL	SBF1050CT	SBF1060CT	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	60	V
Maximum RMS Voltage	V _{RMS}	35	42	V
Maximum DC Blocking Voltage	V _{DC}	50	60	V
Maximum Average Forward Rectified Current(See Fig.1) @TC=80°C	I _(AV)	10		А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	150		А
Maximum Forward Voltage at 5A DC (Note1)	VF	0.7		V
Maximum DC Reverse Current @TJ=25°C at Rated DC Blocking Voltage @TJ=100°C	I _R	0.3 30		mA
Typical Junction Capacitance per element (Note 2)	CJ	250		РF
Typical thermal resistance _ Junction to Lead (Note 3)	R⊕ _{JL}	4.5		°C/W
Operating junction temperature range	TJ	-55 to +125		°C
Storage temperature range	T _{STG}	-55 to +150		°C
Dielectric Strength from terminals to case, AC with t=1 minute, RH<30%	V _{dis}	2000		V
Note:		REV. 5, Apr-2011, KTHC34		

(1) 300us Pulse Width, 2% Duty Cycle..

(2) Measured at 1.0MHz and applied reverse voltage of 4.0 V DC

(3) Thermal Resistance Junction to Lead with L42xH25xW25mm_black Aluminum finny heat sink...







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