

10A, 60V SCHOTTKY RECTIFIER

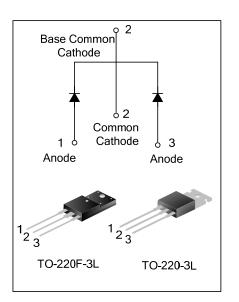
DESCRIPTION

SBD10C60T/F is schottky rectifier fabricated in silicon epitaxial planar technology, Guard ring construction for over voltage protection and enhanced long term reliability.

Typical applications are in switching power supplies, converter, free-wheeling diodes, and reverse battery protection.

FEATURES

- * Guard ring for Stress Protection
- * High Surge Capacity
- * Low power loss , high efficiency
- * Low Forward Voltage Drop
- * 125°C Operating Junction Temperature



ORDERING SPECIFICATIONS

Part No.	Package	Marking	Material	Packing
SBD10C60T	TO-220-3L	SBD10C60T	Pb free	Tube
SBD10C60F	TO-220F-3L	SBD10C60F	Pb free	Tube

ABSOLUTE MAXIMUM RATINGS (T_C=25°C unless otherwise noted)

Characteristics	Symbol	Ratings	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	60	V
Average Forward Rectified Current	I _{FAV}	10	Α
Peak Forward Surge Current@8.3ms	I _{FSM}	120	Α
Operation Junction Temperature	TJ	125	°C
Storage Temperature Range	T _{STG}	-40~125	°C

THERMAL CHARACTERISTICS

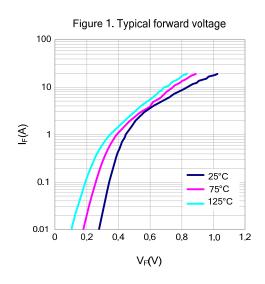
Characteristics	Symbol	Value	Unit
Thermal Resistance, Junction-to-Case	$R_{ heta JC}$	2.0	°C/W

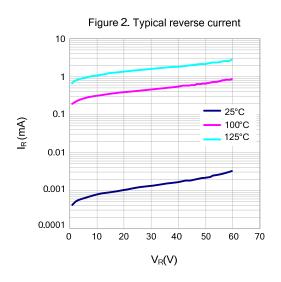


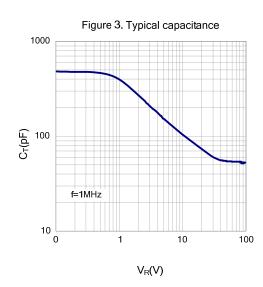
ELECTRICAL CHARACTERISTICS (Per Leg)

Characteristics	Symbol	Test Condition	Min.	Max.	Unit
Forward Voltage	V _F	I _F =5 A; TJ=25°C		0.71	V
	V _F	I _F =5 A; TJ =125°C		0.61	V
	V _F	I _F =10 A; TJ =25°C		0.85	V
	V _F	I _F =10 A; TJ =125°C		0.71	V
	I _R	V _R =60V; TJ =25°C		100	μА
Reverse Current	I _R	V _R =60V; TJ =125°C		15	mA

CHARACTERISTIC CURVES

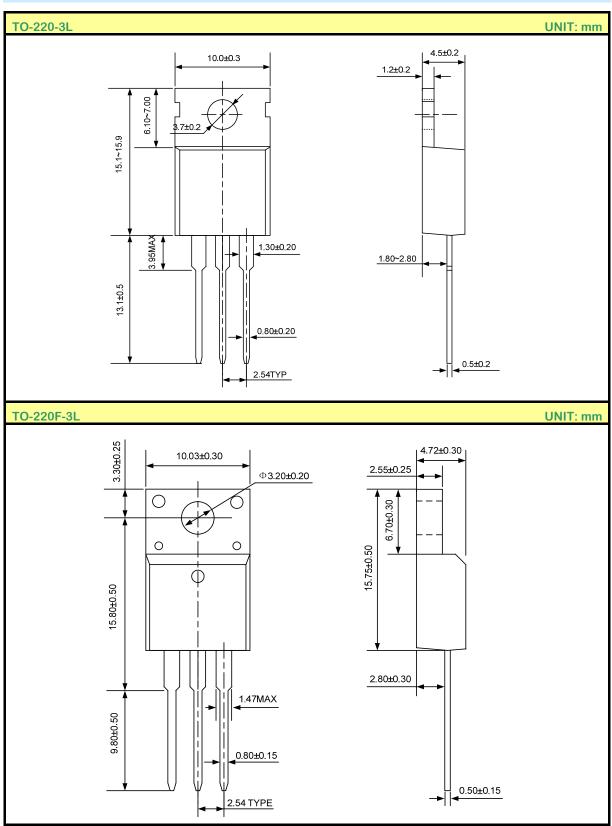








PACKAGE OUTLINE





SBD10C60T/F_Datasheet

Disclaimer:

- Silan reserves the right to make changes to the information herein for the improvement of the design and performance without further notice! Customers should obtain the latest relevant information before placing orders and should verify that such information is complete and current.
- All semiconductor products malfunction or fail with some probability under special conditions. When using Silan
 products in system design or complete machine manufacturing, it is the responsibility of the buyer to comply with
 the safety standards strictly and take essential measures to avoid situations in which a malfunction or failure of
 such Silan products could cause loss of body injury or damage to property.
- Silan will supply the best possible product for customers!

ATTACHMENT

Revision History

Date	REV	Description	Page
2011.06.28	1.0	Initial release	