

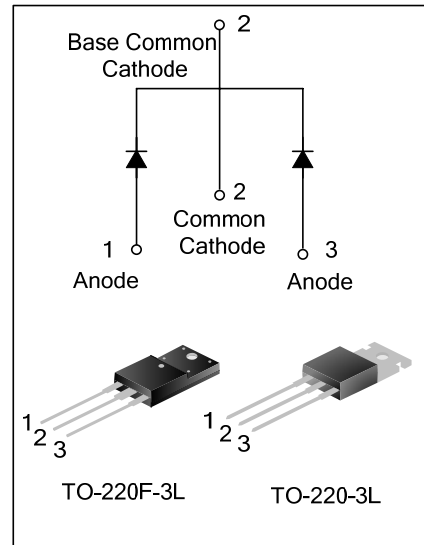
10A, 100V SCHOTTKY RECTIFIER

GENERAL DESCRIPTION

SBD10C100T/F is schottky rectifier fabricated in silicon epitaxial planar technology. Typical applications are in switching power supplies and protection circuit etc.

FEATURES

- * Guard ring for Stress Protection
- * High Surge Capacity
- * Low power loss , high efficiency
- * Low forward voltage drop



ORDERING SPECIFICATIONS

Part No.	Package	Marking	Material	Packing
SBD10C100T	TO-220-3L	SBD10C100T	Pb free	Tube
SBD10C100F	TO-220F-3L	SBD10C100F	Pb free	Tube

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

Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	100	V
Average Forward Rectified Current	IFAV	10	A
Peak Forward Surge Current@8.3ms	IFSM	120	A
Operation Junction Temperature	TJ	150	°C
Storage Temperature Range	TSTG	-40~150	°C

THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Unit
Thermal Resistance, Junction-to-Case	RθJC	2.0	°C/W

ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Test conditions	Min.	Max.	Unit
Forward Voltage	VF	IF=5A (Tc=25°C)	--	0.85	V
		IF=5A(Tc=125°C)	--	0.75	V
Reverse Current	IR	VR=100V(Tc=25°C)	--	50	μA
		VR=100V(Tc=125°C)	--	25	mA

TYPICAL CHARACTERISTICS

Figure 1. Typical forward voltage

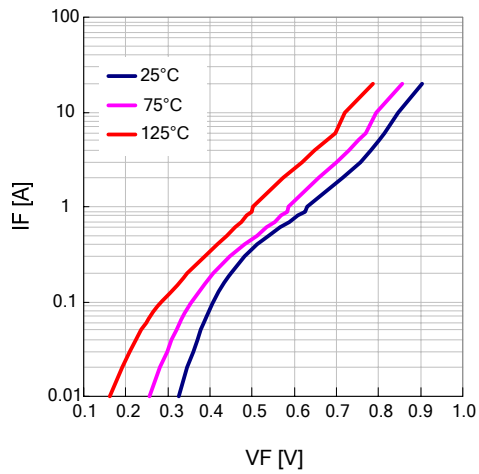


Figure 2. Typical reverse current

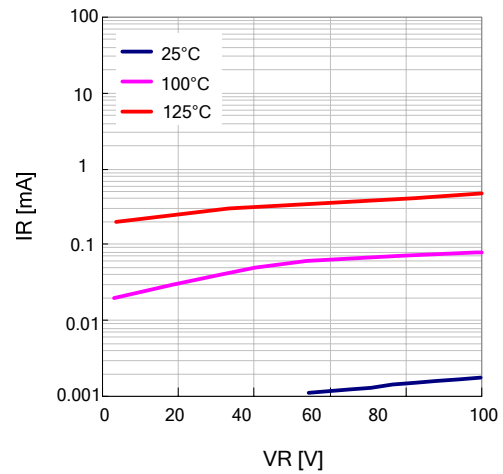
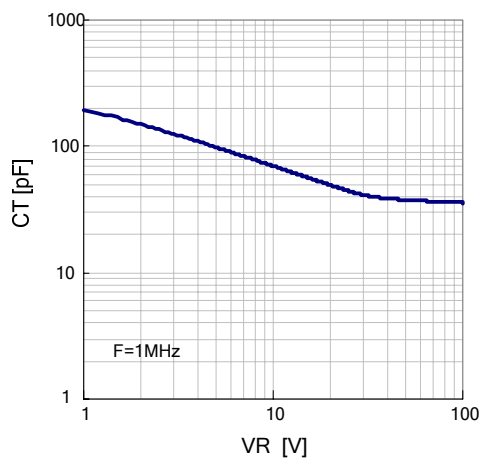


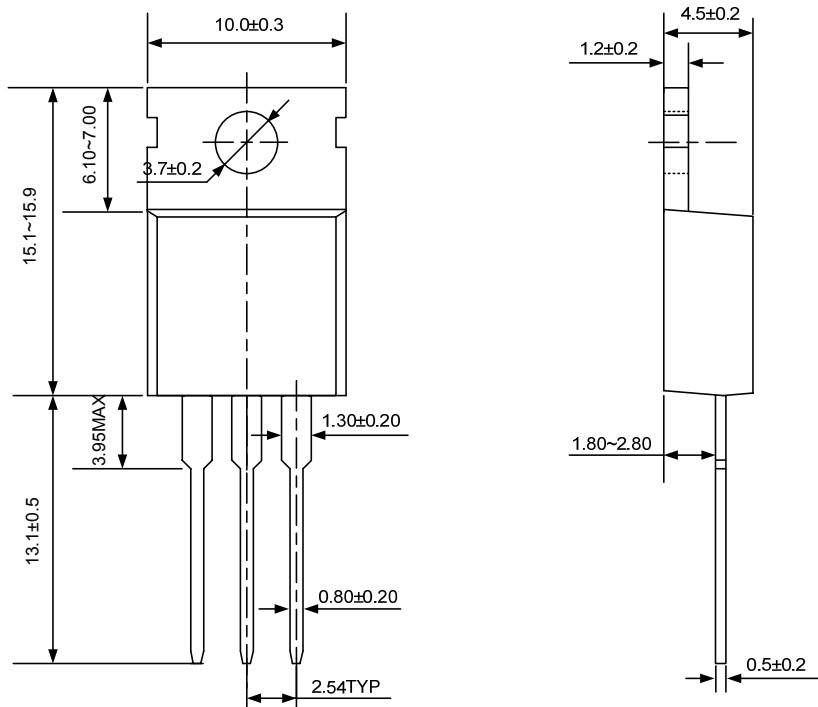
Figure 3. Typical capacitance



PACKAGE OUTLINE

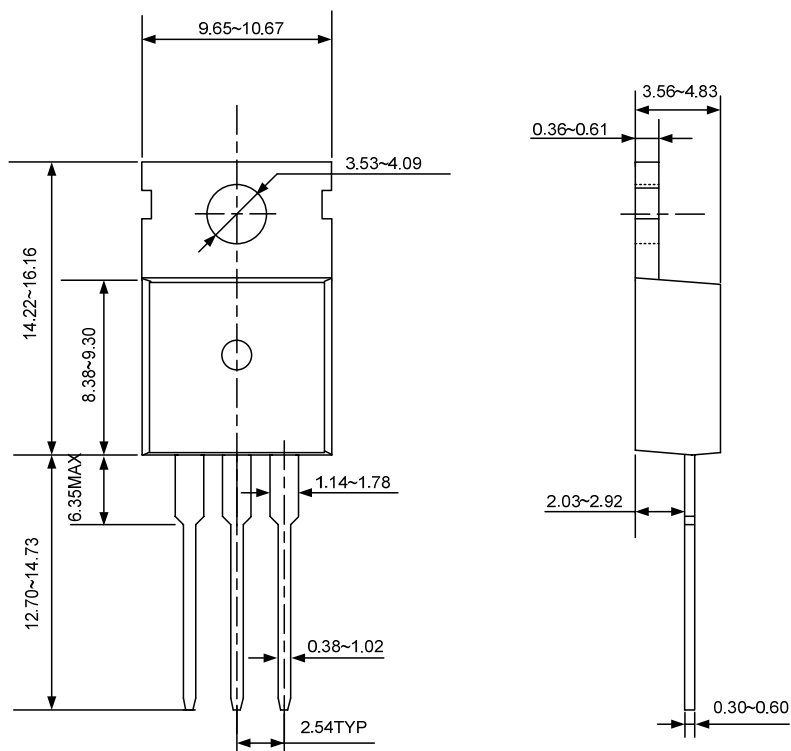
TO-220-3L(1)

UNIT: mm



TO-220-3L(2)

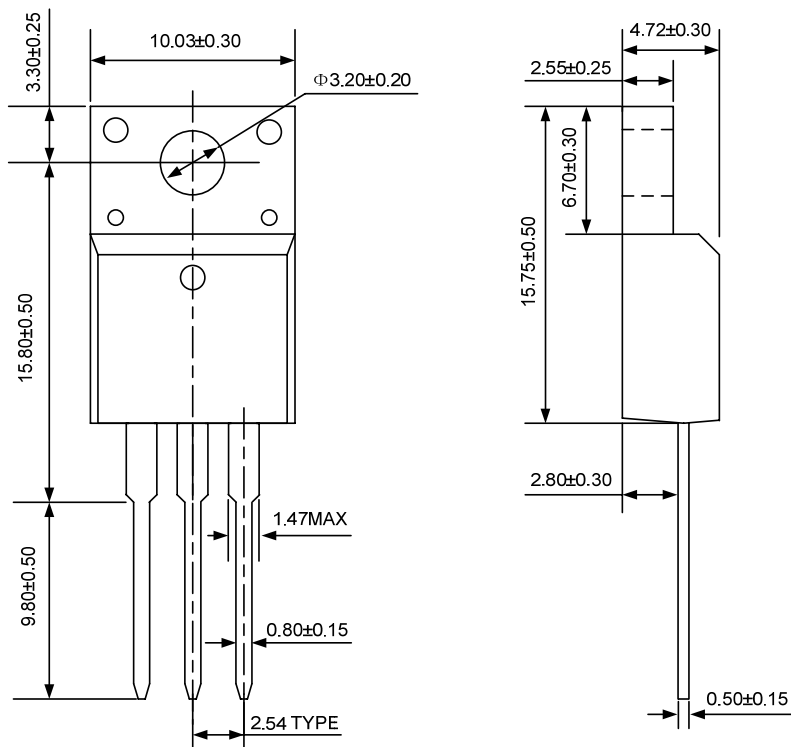
UNIT: mm



PACKAGE OUTLINE(continued)

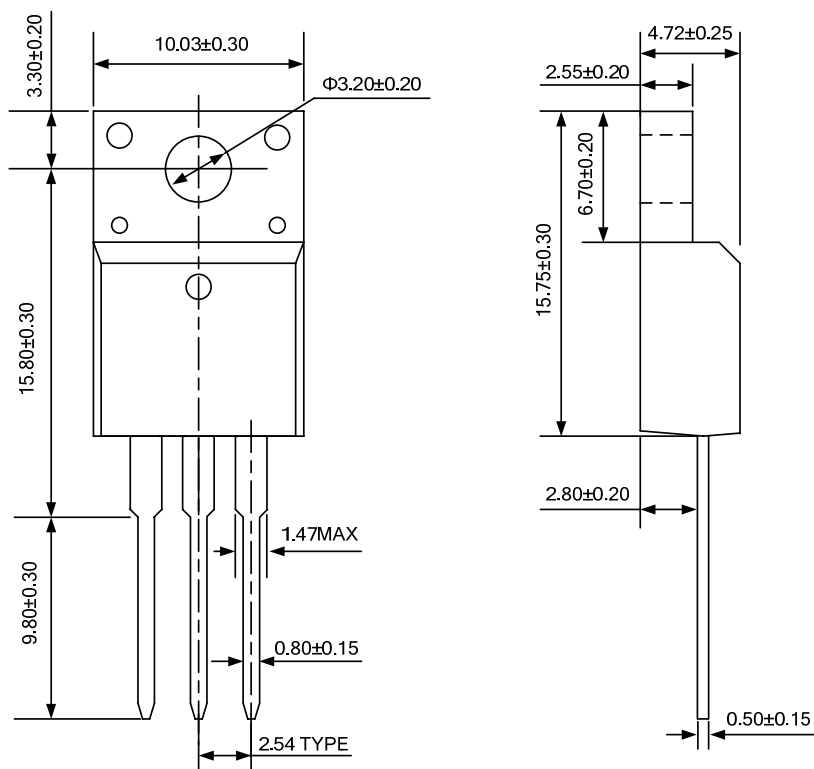
TO-220-3L(1)

UNIT: mm



TO-220F-3L(2)

UNIT: mm



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- 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.
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- Silan will supply the best possible product for customers!

ATTACHMENT**Revision History**

Date	REV	Description	Page
2010.06.09	1.0	Original	
2010.09.02	1.1	Add TO-220-3L, TO-220F-3L package of youyi	
2010.10.22	1.2	Modify the template of datasheet	