

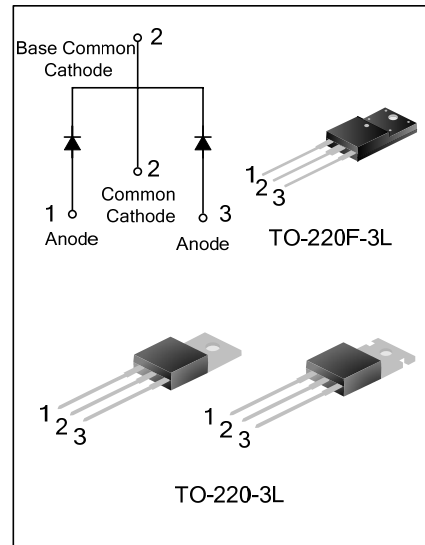
20A, 100V SCHOTTKY RECTIFIER

GENERAL DESCRIPTION

SBD20C100T/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
SBD20C100T	TO-220-3L	SBD20C100T	Pb free	Tube
SBD20C100F	TO-220F-3L	SBD20C100F	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	20	A
Peak Forward Surge Current@8.3ms	IFSM	150	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=10A (Tc=25°C)	--	0.85	V
		IF=10A(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

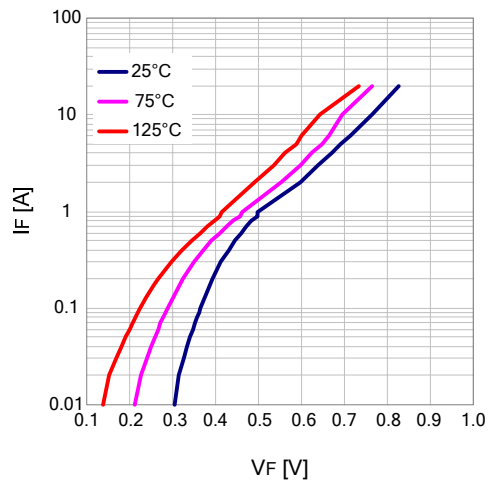


Figure 2. Typical reverse current

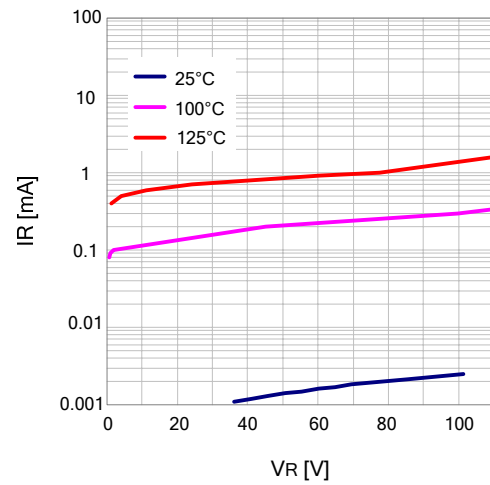
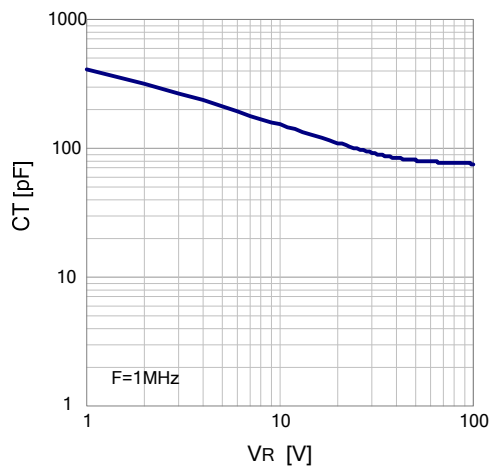


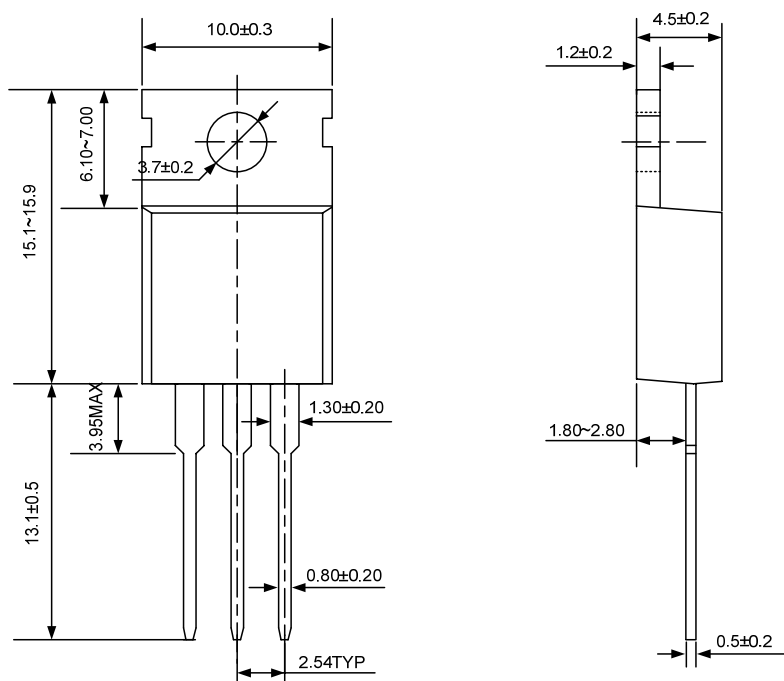
Figure 3. Typical capacitance



PACKAGE OUTLINE

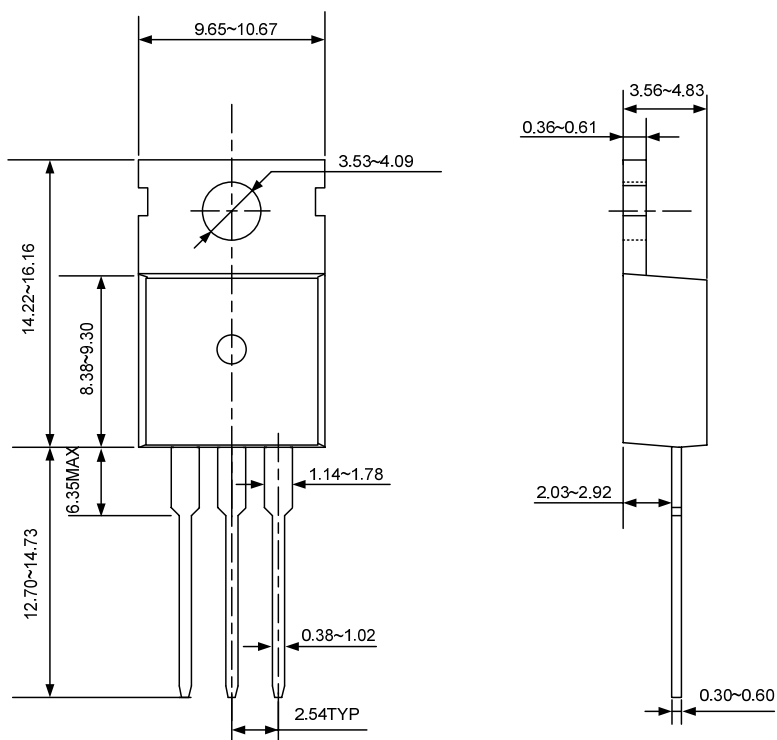
TO-220-3L(1)

UNIT: mm



TO-220-3L(2)

UNIT: mm

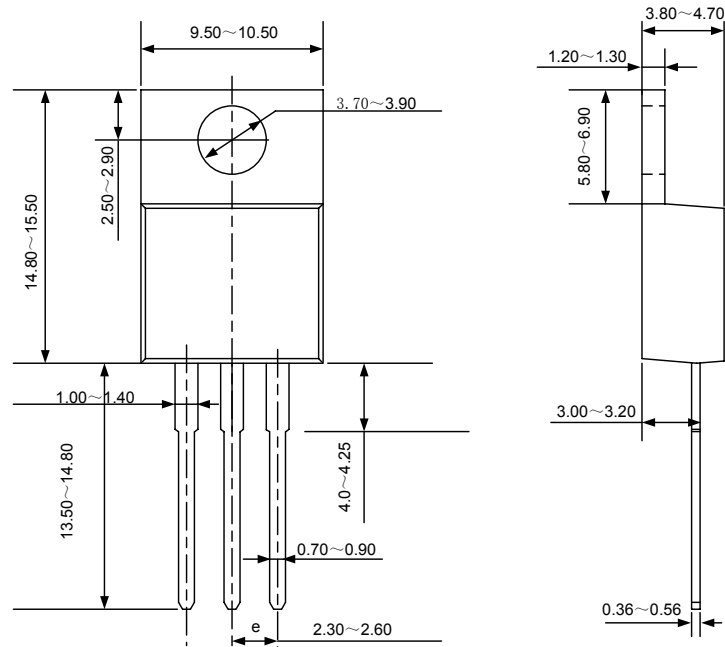




PACKAGE OUTLINE(continued)

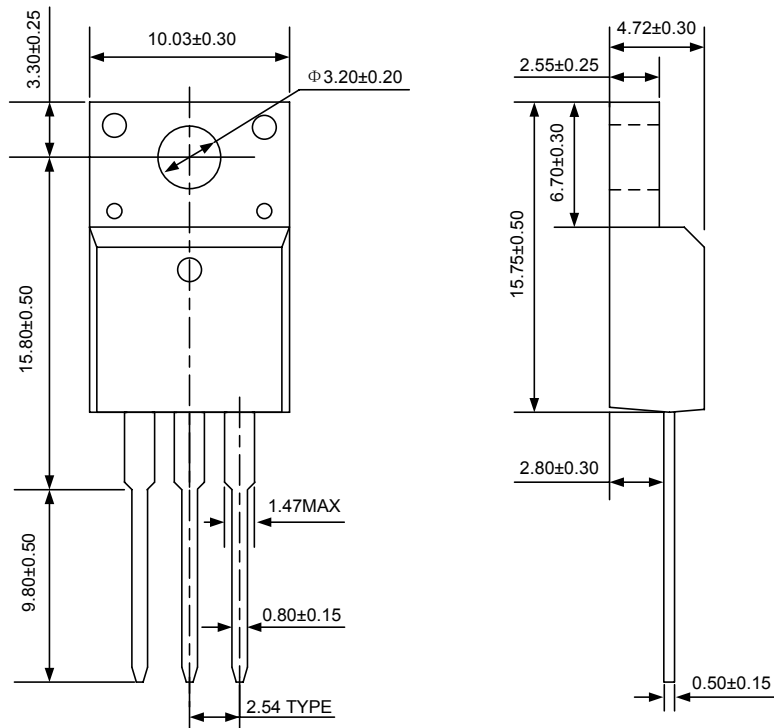
TO-220-3L(3)

UNIT: mm



TO-220F-3L(1)

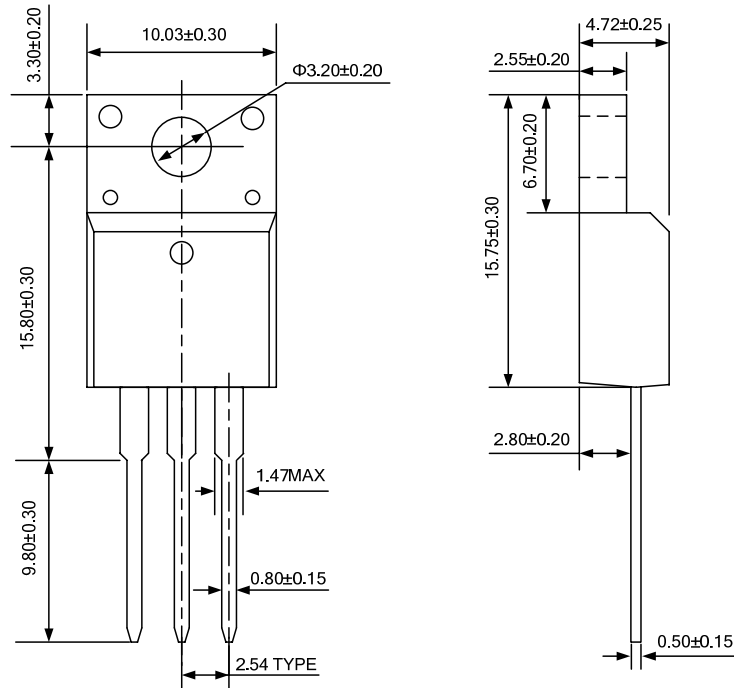
UNIT: mm



PACKAGE OUTLINE(continued)

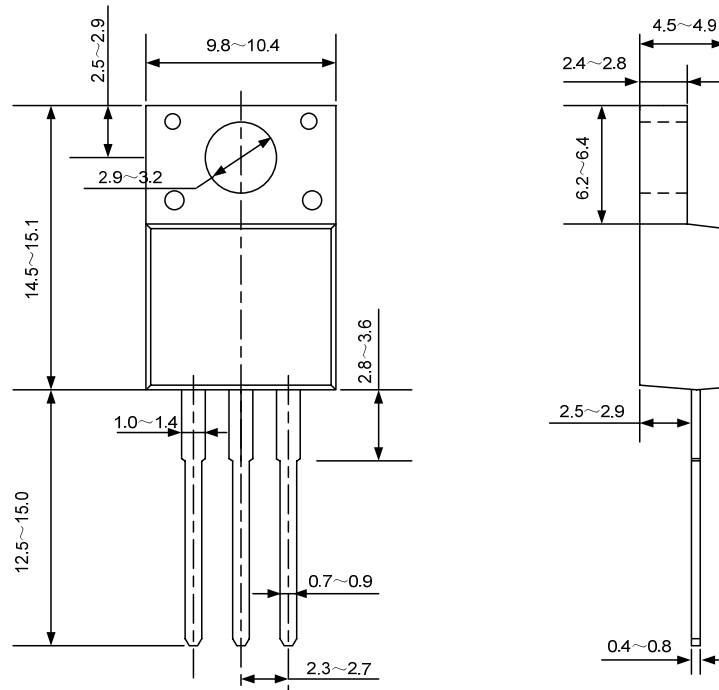
TO-220F-3L(2)

UNIT: mm



TO-220F-3L(3)

UNIT: mm



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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	
2010.08.25	1.1	Add TO-220-3L, TO-220F-3L package of youyi; Add TO-220-3L package of kangbi	
2010.10.09	1.2	Add TO-220F-3L package of kangbi	
2010.10.22	1.3	Modify the template of datasheet	