

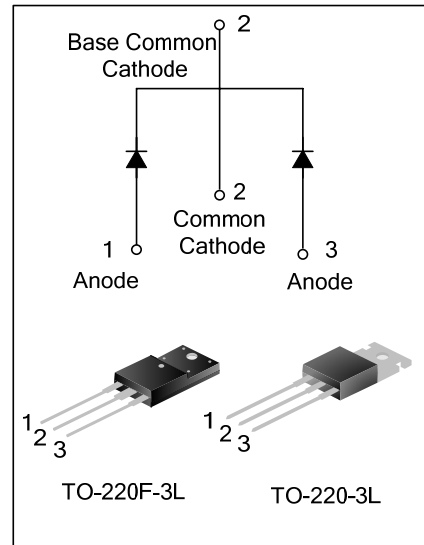
## 10A, 100V SCHOTTKY RECTIFIER

### 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

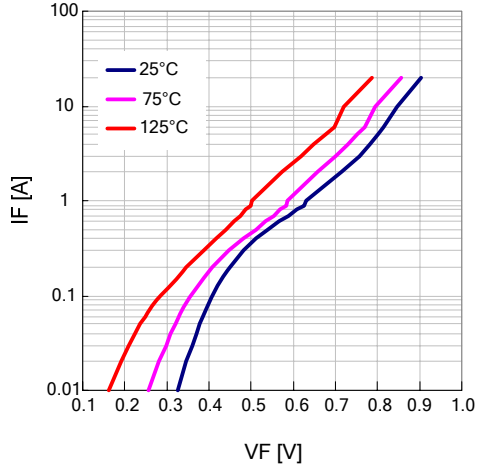


Figure 2. Typical reverse current

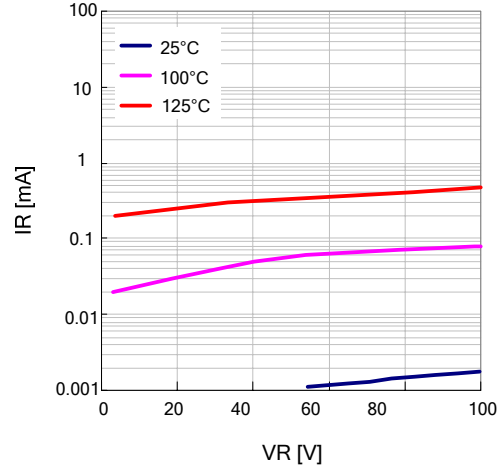
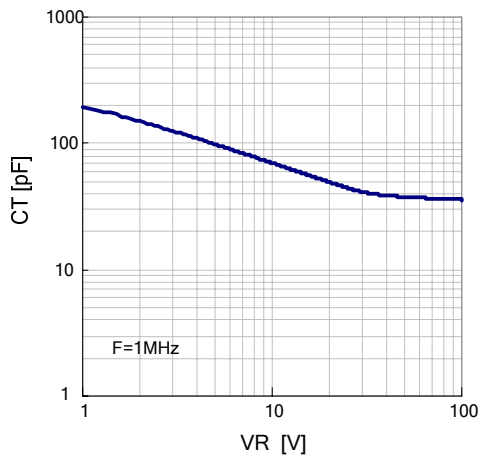


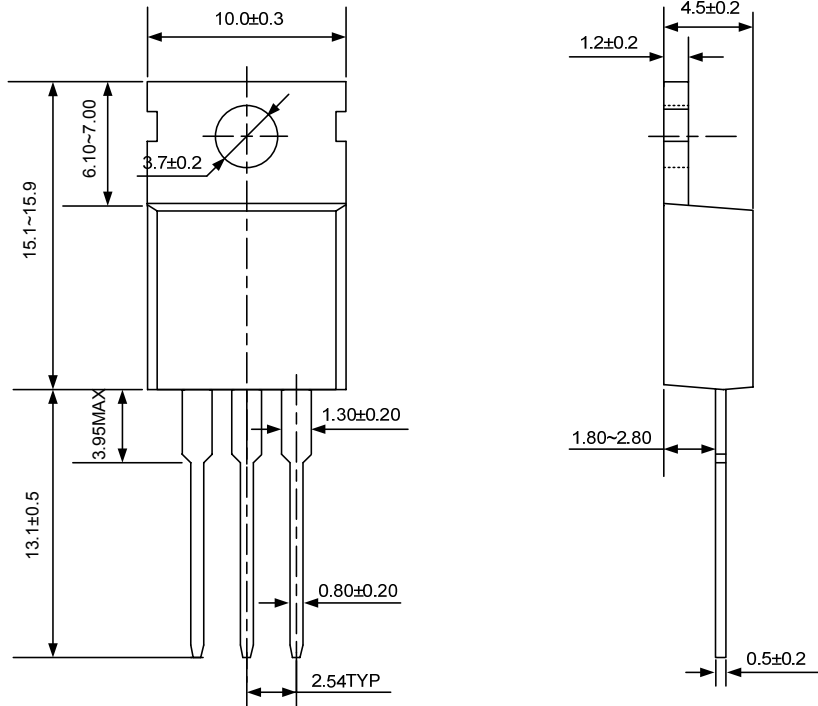
Figure 3. Typical capacitance



**PACKAGE OUTLINE**

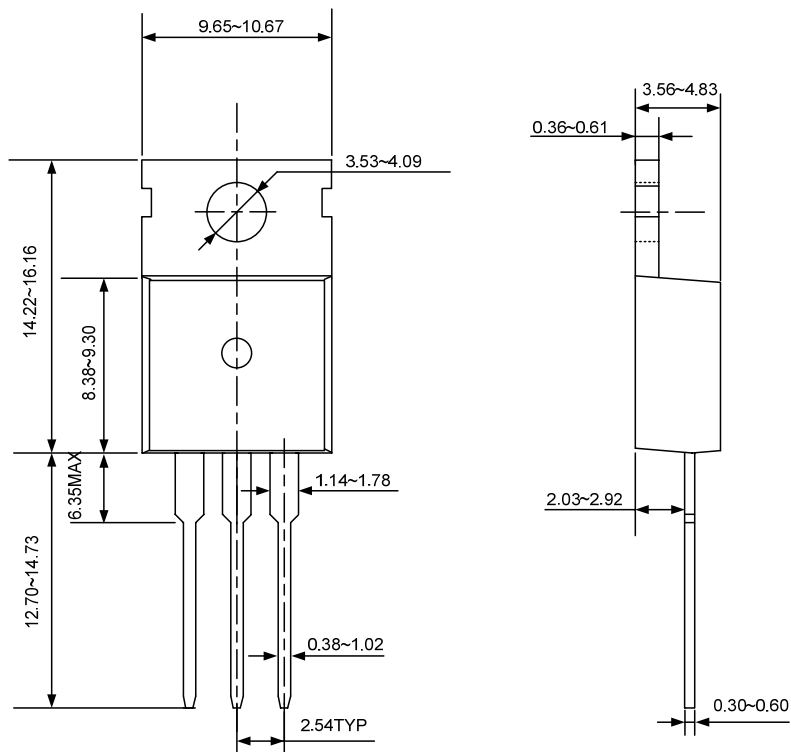
**TO-220-3L(1)**

**UNIT: mm**



**TO-220-3L(2)**

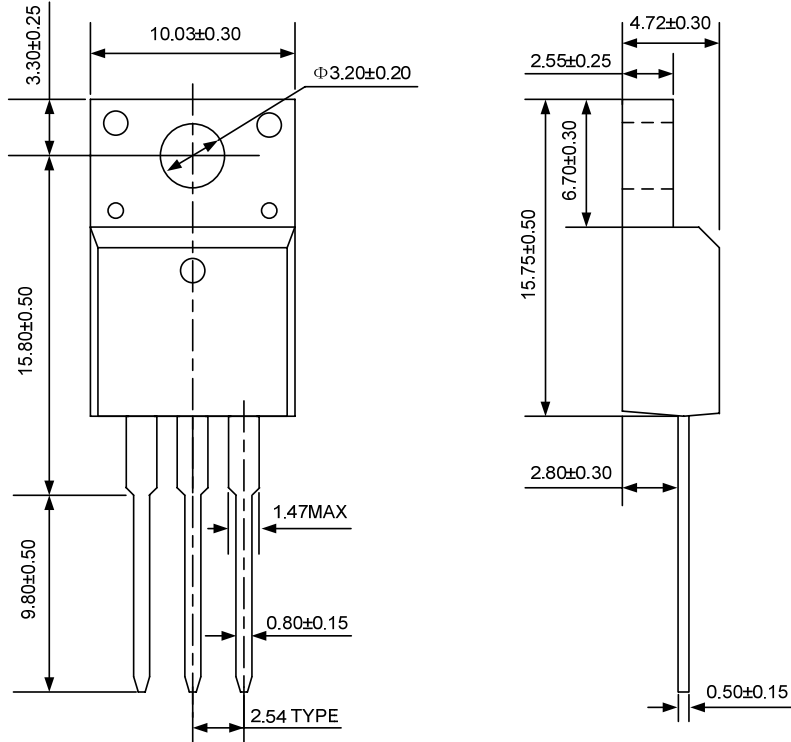
**UNIT: mm**



**PACKAGE OUTLINE(continued)**

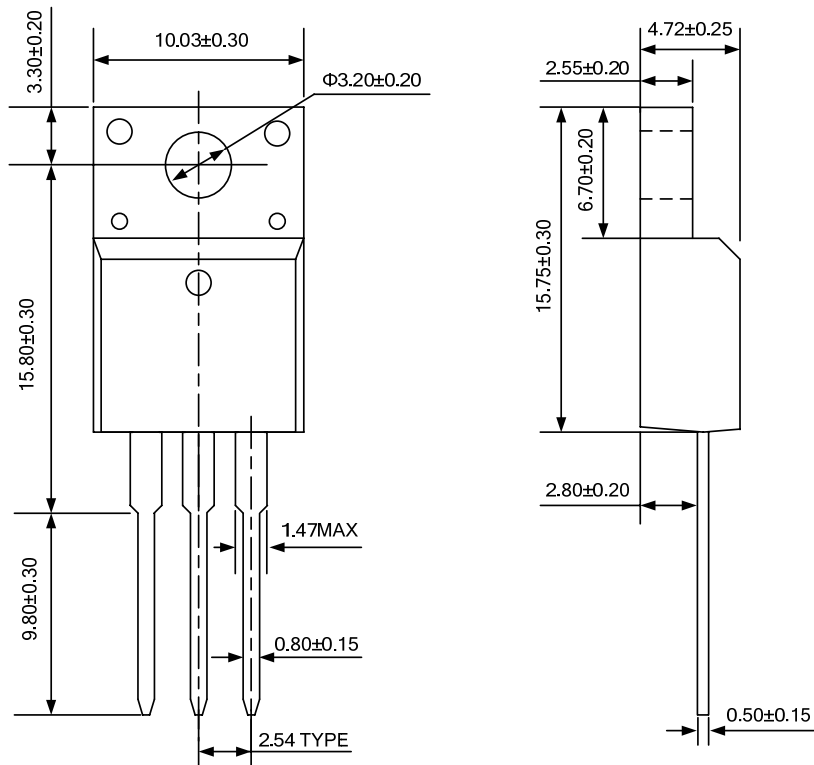
**TO-220-3L(1)**

**UNIT: mm**



**TO-220F-3L(2)**

**UNIT: mm**





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- Silan 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	