

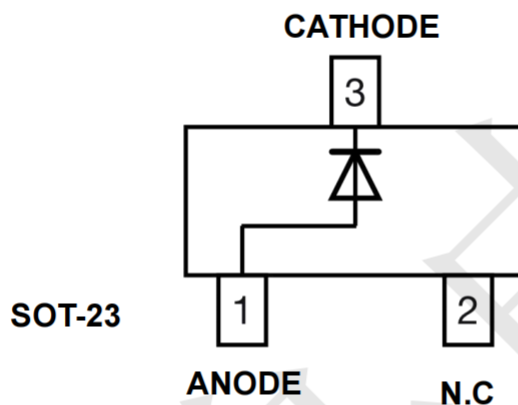
Features

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Fast Switching
- Low Leakage Current
- RoHs Product

Applications

- Surface mount schottky barrier rectifier
- Buck and Boost dc-dc Converters
- Low Voltage High Frequency Switching Power Supply
- Low Voltage High Frequency Invers Circuit
- Low Voltage Continued Circuit and Protection Circuit

Pin Configuration (Top View)



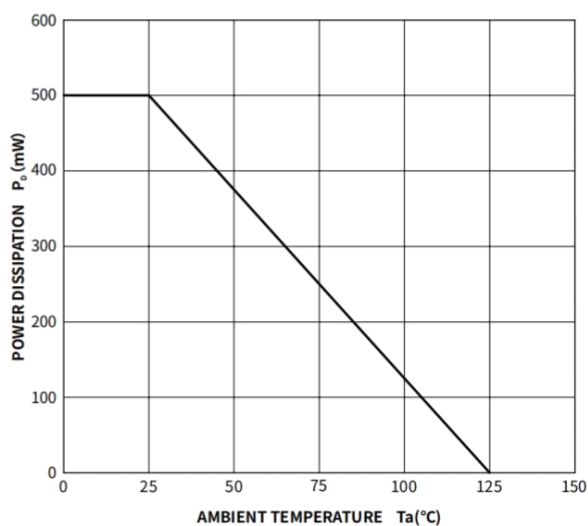
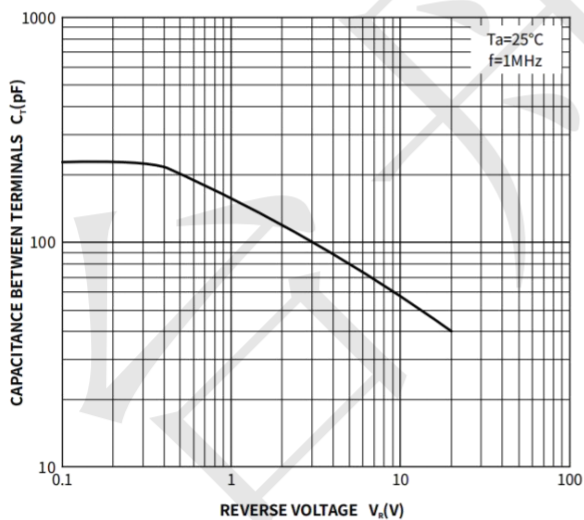
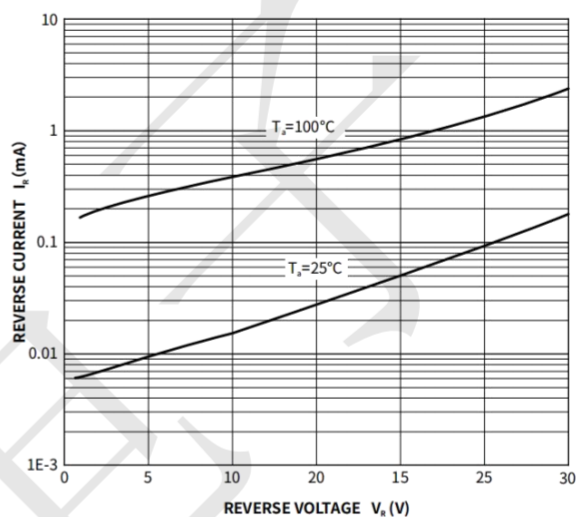
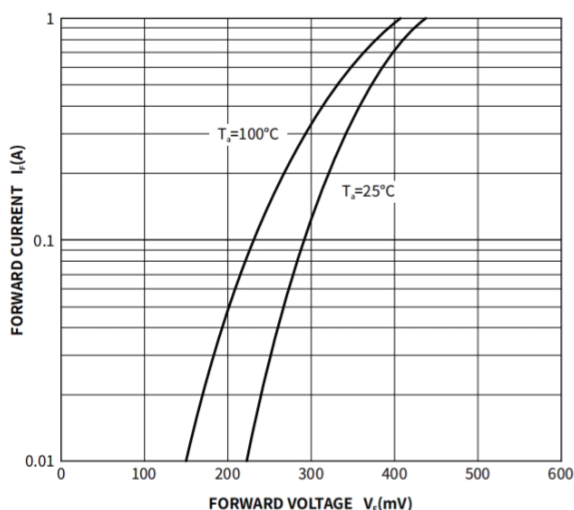
Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
DC Blocking Voltage	VR	40	V
Forward Continuous Current	IF	0.5	A
Non-repetitive Peak Forward Surge Current	IFSM	5.5	A
	t _s ≤8.3ms		
Power Dissipation	Pd	500	mW
Thermal Resistance Junction to Ambient	R _{θJA}	200	°C/W
Operating Junction Temperature Range	T _J	125	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C
Mounted onto a 4 in square FR-4 board 10 mm sq. 1 oz. Cu 0.06" thick single sided. Operating to steady state.			

Electrical Characteristics (TA=25°C unless otherwise specified)

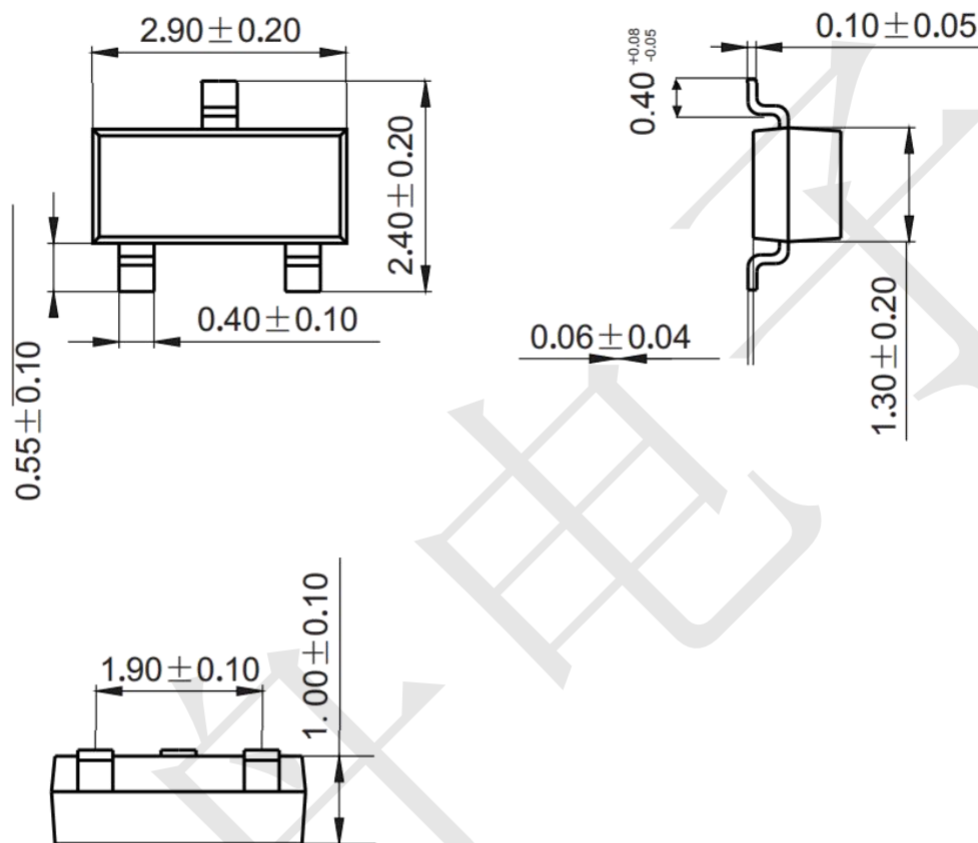
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R =500uA	40	--	--	V
Forward Voltage	VF	IF=0.1A	--	--	0.4	V
		IF=0.5A	--	--	0.5	V
Reverse Leakage	I _R	V _R =40V	--	--	20	uA
Capacitance terminals	C _T	V _R =40V, f = 1 MHz	--	170	--	pF
Reverse recovery time	t _{rr}	IF=500mA, VR=6V, RL=6Ω	--	5.6	--	ns

Typical Electrical Characteristic Curves



Package Outline Dimensions (unit: mm)

SOT23



Mounting Pad Layout (unit: mm)

