

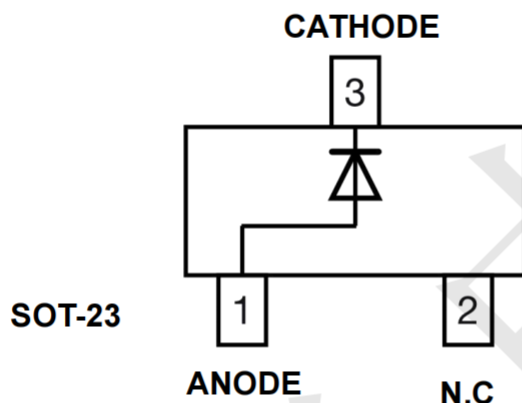
Features

- 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
Power Dissipation	Pd	500	mW
Thermal Resistance Junction to Ambient	RθJA	200	°C/W
Operating Junction Temperature Range	TJ	125	°C
Storage Temperature Range	TSTG	-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)	IR=500uA	40	--	--	V
Forward Voltage	VF	IF=0.1A	--	--	0.4	V
		IF=0.5A	--	--	0.5	V
Reverse Leakage	IR	VR=40V	--	--	20	uA
Capacitance terminals	CT	VR =40V, f = 1 MHz	--	170	--	pF
Reverse recovery time	trr	IF=500mA, VR=6V, RL=6Ω	--	5.6	--	ns

Typical Electrical Characteristic Curves

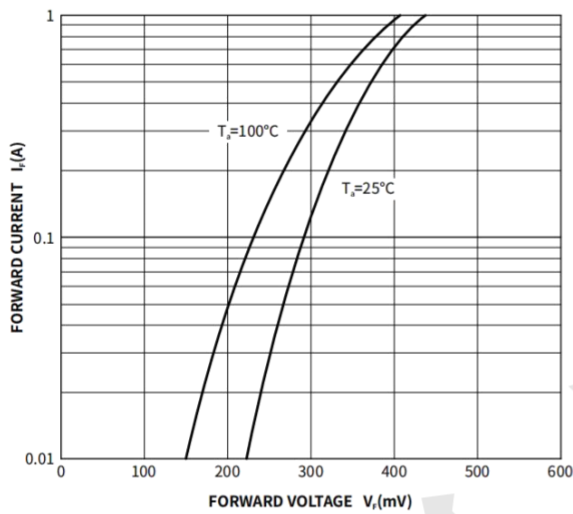


Fig.1 Typical Instantaneous Forward Characteristics

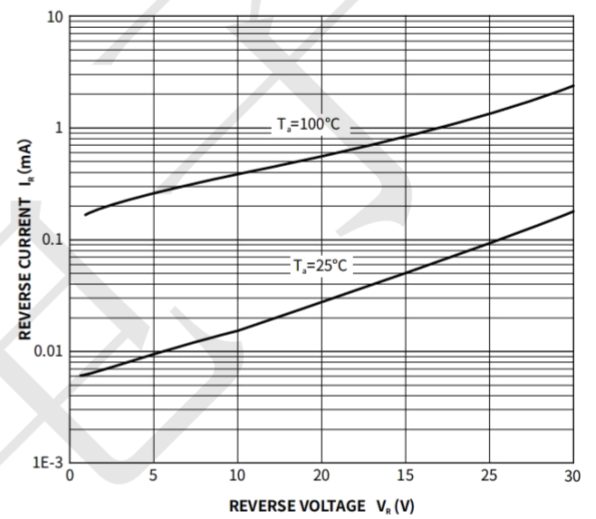


Fig.2 Typical Reverse Characteristics

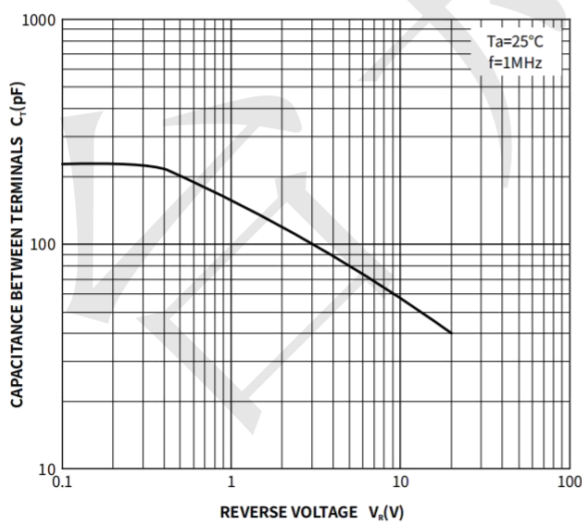


Fig.3 Typical Junction Capacitance

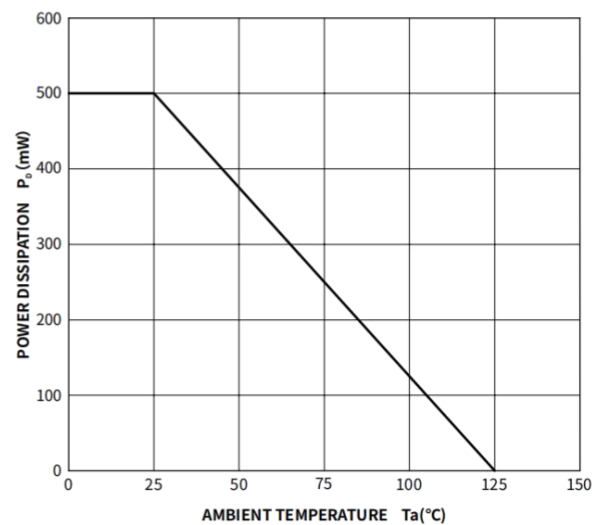
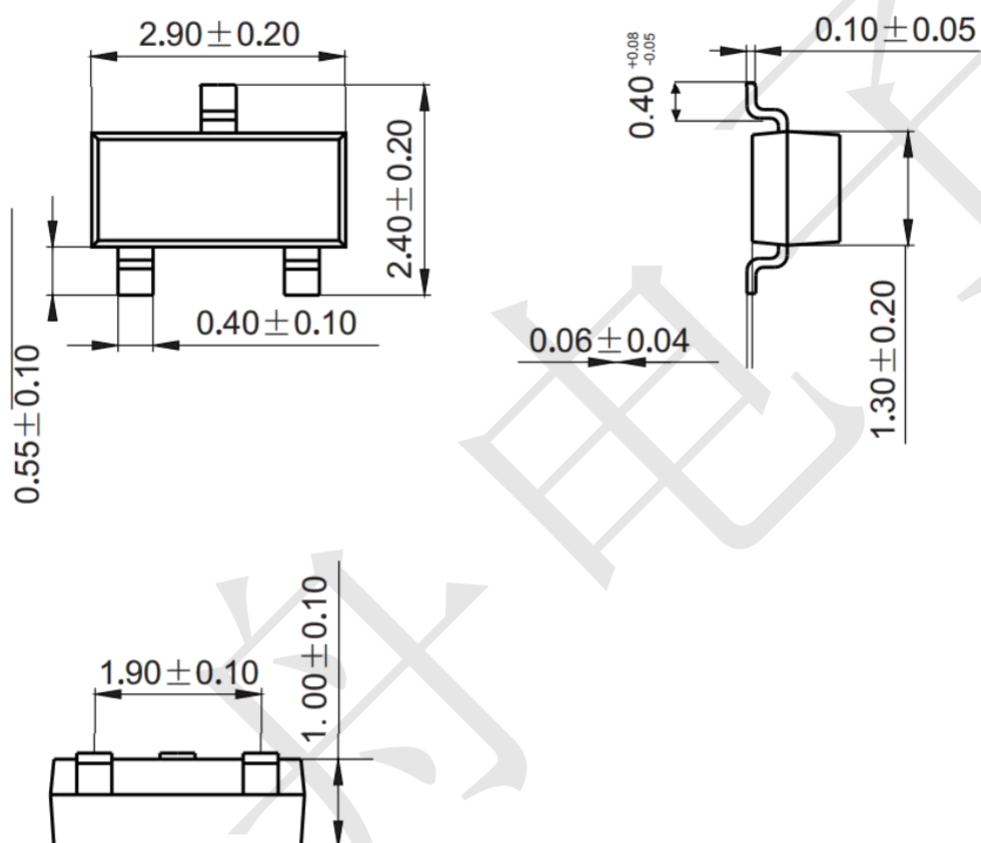


Fig.4 Power Derating Curve

Package Outline Dimensions (unit: mm)

SOT23



Mounting Pad Layout (unit: mm)

