

Features

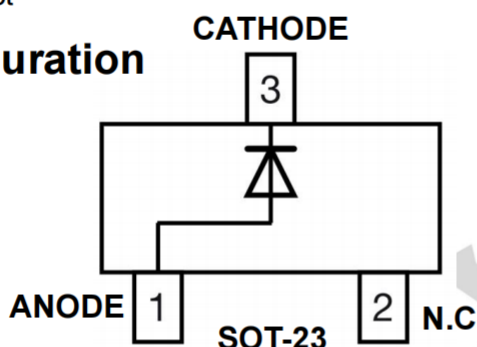
- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Fast Switching
- Low Leakage Current
- RoHs Product

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



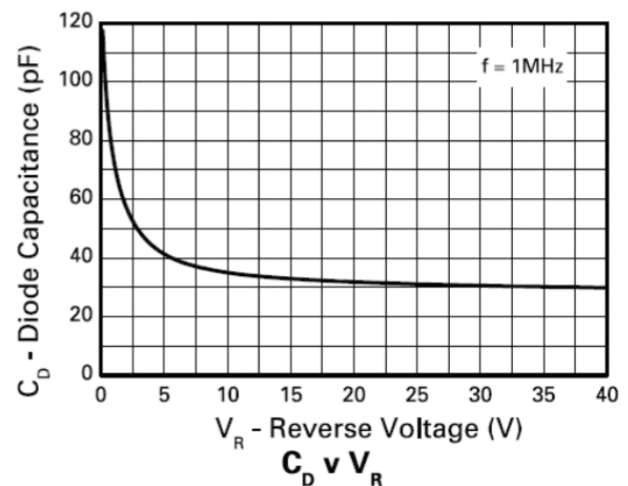
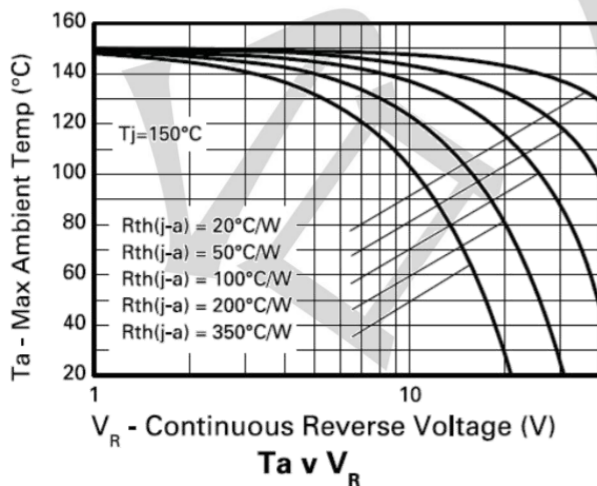
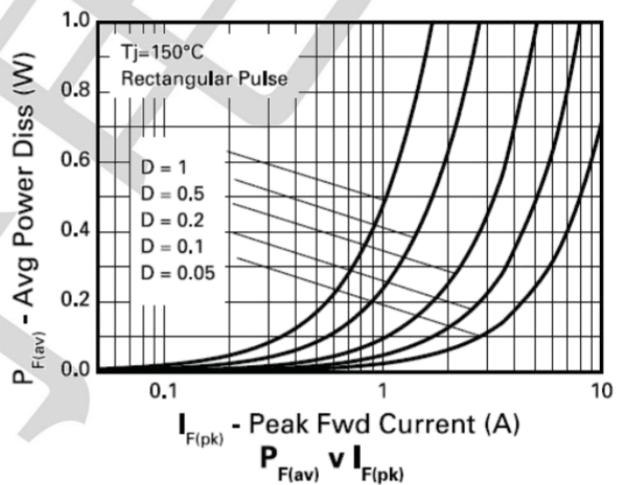
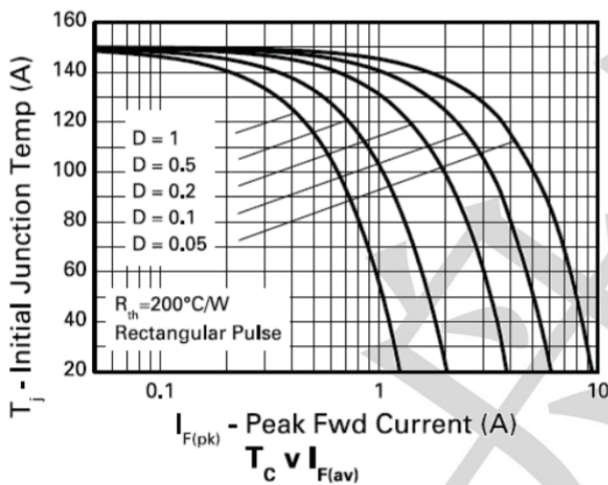
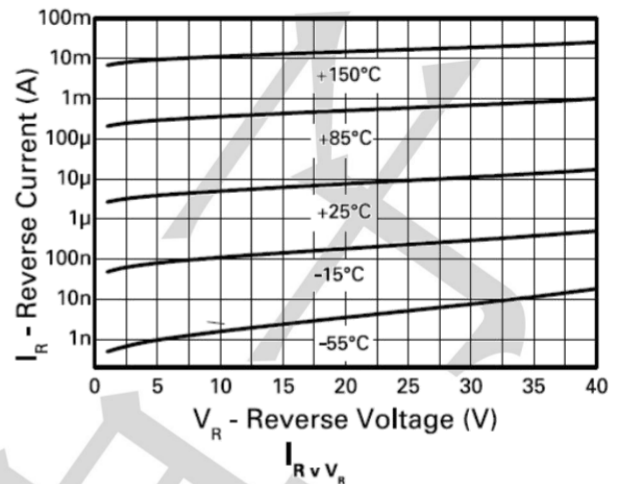
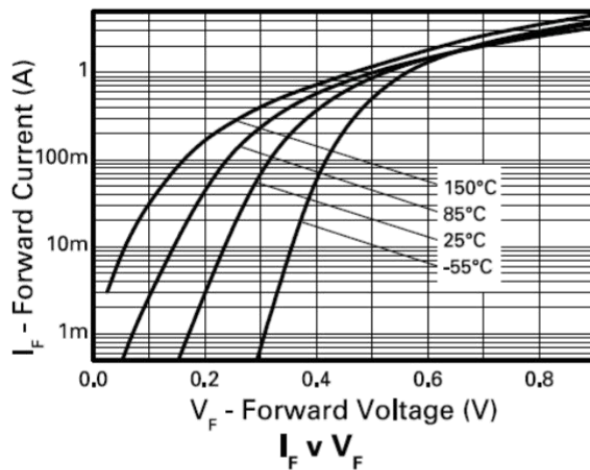
Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
DC Blocking Voltage	VR	40	V
Forward Continuous Current	IF	1.16	A
Peak Repetitive Forward Current	IFPK	1.88	A
Non-repetitive Peak Forward Surge Current	IFSM	22	A
		6.4	A
		$t \leq 100\mu s$	
		$t \leq 100ms$	
Power Dissipation	Pd	625	mW
Thermal Resistance Junction to Ambient	RθJA	200	°C/W
Operating Junction Temperature Range	TJ	150	°C
Storage Temperature Range	TSTG	-55 to +150	°C

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

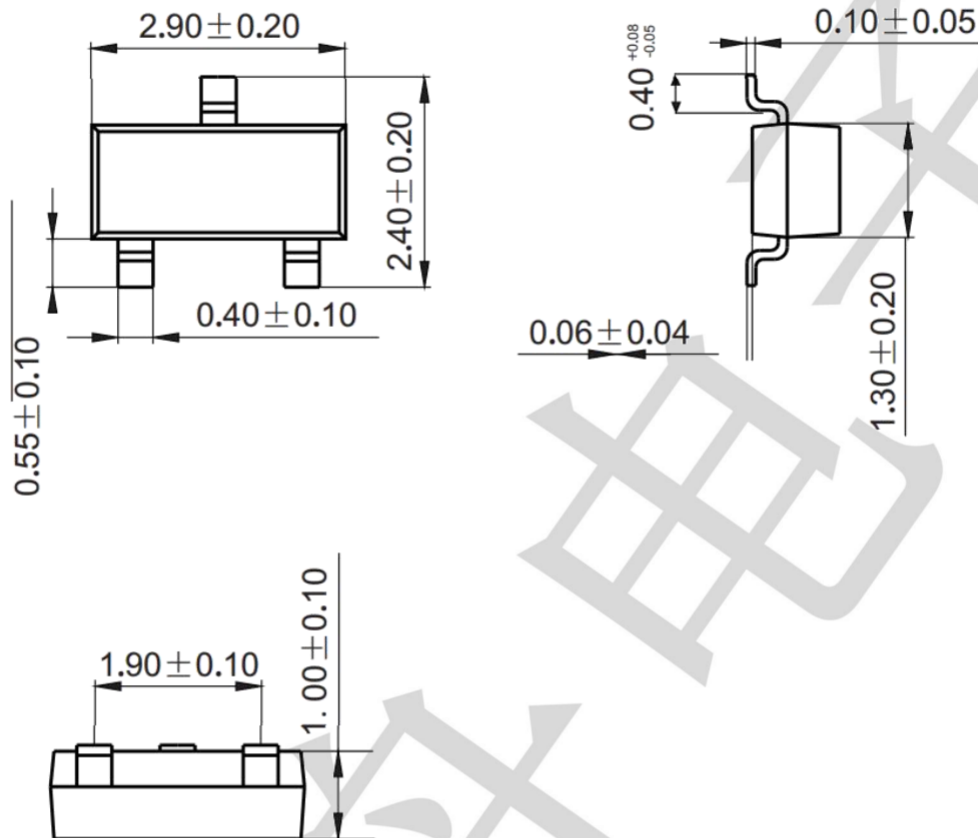
Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse breakdown voltage	V (BR)	40	--	--	V	IR=500uA
Forward Voltage	VF	--	--	0.31	V	IF=50mA
		--	--	0.46	V	IF=400mA
		--	--	0.51	V	IF=750mA
		--	--	0.56	V	IF=1000mA
		--	--	0.66	V	IF=1500mA
Reverse Leakage	IR	--	--	20	uA	VR=30V
Capacitance terminals	CT	--	31	--	pF	VR =30V, f = 1 MHz
Reverse recovery time	trr	--	2.58	--	ns	IF=500mA, VR=6V, RL=6Ω

Typical Electrical Characteristic Curves



Package Outline Dimensions (unit: mm)

SOT23



Mounting Pad Layout (unit: mm)

