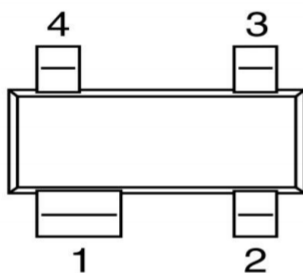


Features

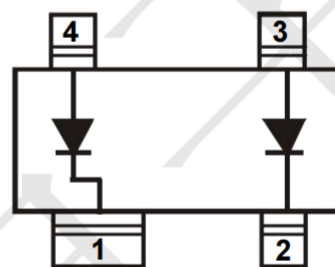
- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Fast Switching
- Low Leakage Current
- RoHs Product



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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



Device Schematic

Absolute Maximum Ratings (TA=25°C unless otherwise specified)

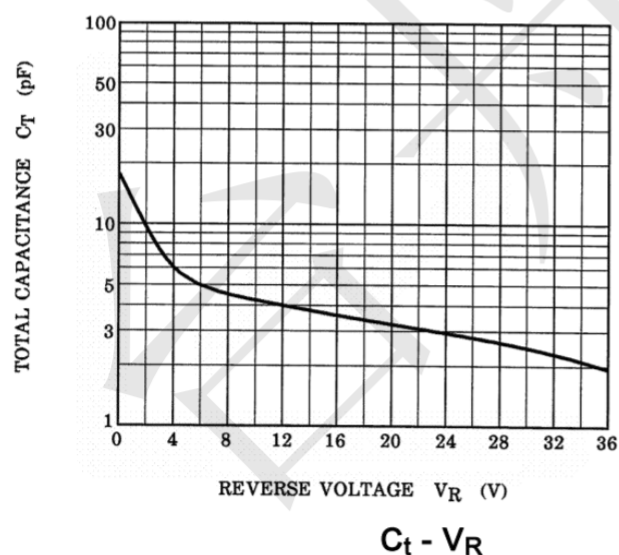
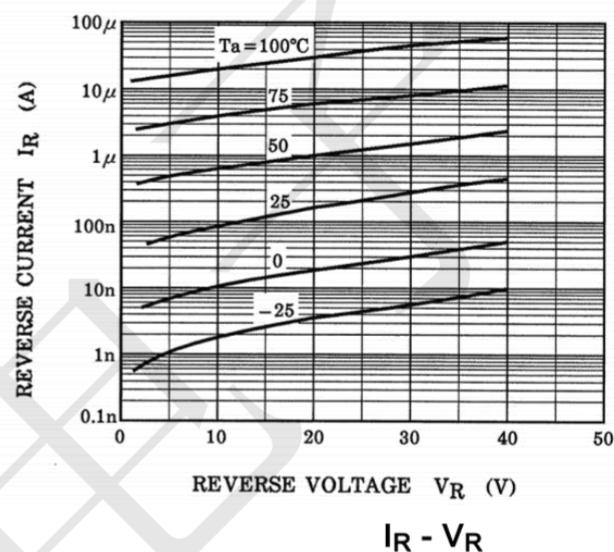
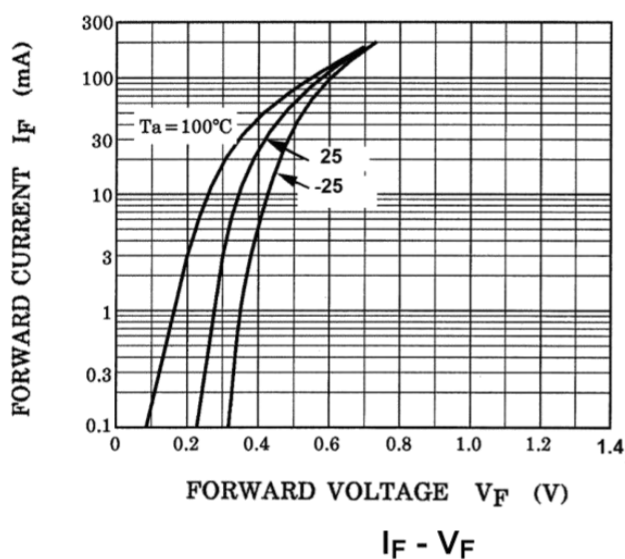
Parameter	Symbol	Value	Unit
Peak Reverse Voltage	VRM	45	V
Reverse voltage	VR	40	V
Maximum average forward rectified current	IF	120	mA
Non-repetitive Peak Forward Surge Current@t=8.3ms	IFSM	300	mA
Power Dissipation	Pd	200	mW
Thermal Resistance Junction to Ambient	RθJA	620	°C/W
Operating Junction Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	TSTG	-55 to +150	°C

Device mounted on an FR4 PCB, single-sided copper, tin-plated, mounting pad for cathode 1 cm2.

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

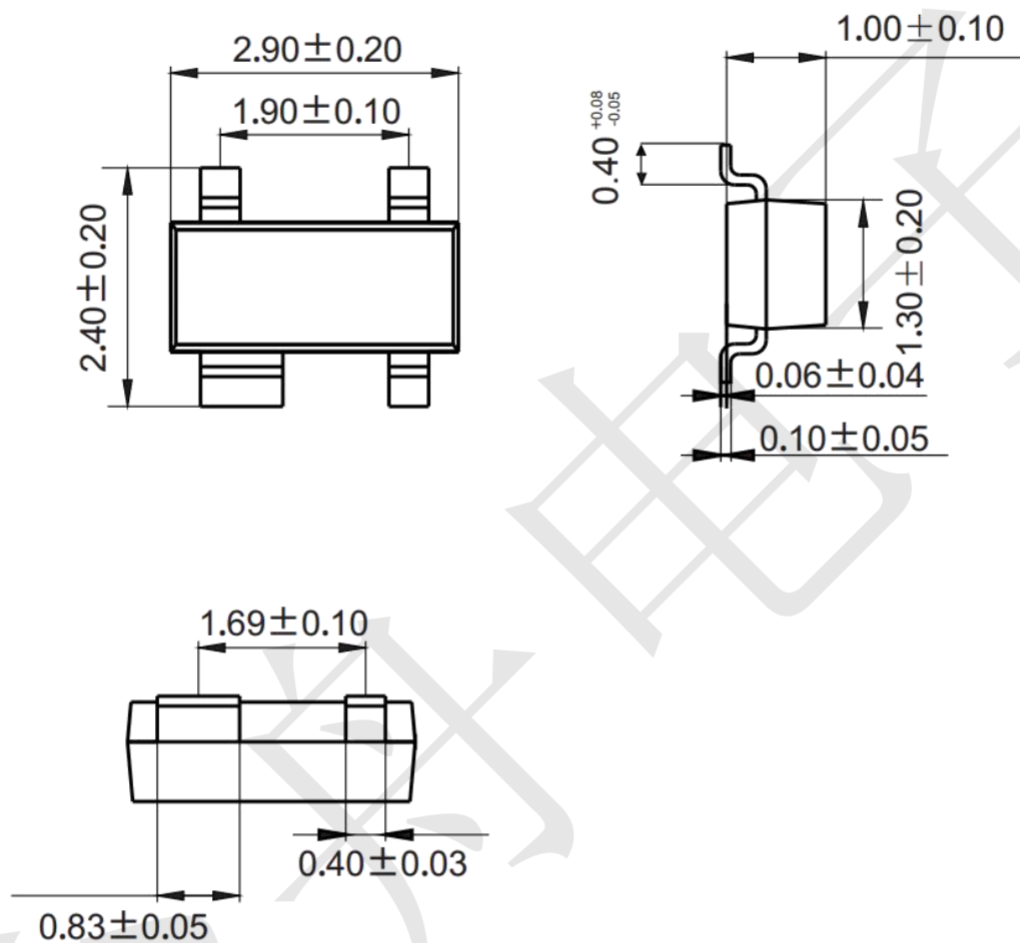
Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse breakdown voltage	V (BR)	40	--	--	V	IR=100μA
Forward Voltage	VF	--	0.29	--	V	IF=1mA
		--	0.36	--	V	IF=10mA
		--	0.55	0.6	V	IF=100mA
Reverse Leakage	IR	--	--	5	uA	VR=40V
Capacitance terminals	CT	--	18	25	pF	VR = 0 V, f = 1 MHz

Typical Electrical Characteristic Curves



Package Outline Dimensions (unit: mm)

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Mounting Pad Layout (unit: mm)

