

Main Product Characteristics:

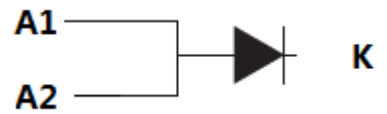
IF	20A
VRRM	100V
T _J (max)	150°C
Vf(max)	0.8V



TO126
SSTS20100R



TO126F
SSTS20100RF



Schematic Diagram

Features and Benefits:

- High Junction Temperature
- High ESD Protection
- High Forward & Reverse Surge capability


Description:

Schottky Barrier Rectifier designed for high frequency switch model power supplies such as adaptors and DC/DC converters; this product special design for high forward and reverse surge capability

Absolute Rating:

Symbol	Characterizes	Value	Unit
V _{RRM}	Peak Repetitive Reverse Voltage	100	V
V _{R(RMS)}	RMS Reverse Voltage	70	V
I _{F(AV)}	Average Forward Current	20	A
I _{FSM}	Non Repetitive Surge Forward Current(tp=8.3ms sinusoidal)	150	A
I _{RRM}	Peak Repetitive Reverse Surge Current(Tp=2us)	0.5	A
T _J	Maximum operation Junction Temperature Range	-55~150	°C
T _{stg}	Storage Temperature Range	-55~150	°C

Thermal Resistance

Symbol	Characterizes		Value	Unit
R _{θJC}	Maximum Thermal Resistance Junction To	TO126	5	°C/W
R _{θJC}	Case(per leg)	TO126F	13	°C/W

Electrical Characterizes @T_A=25°C unless otherwise specified

Symbol	Characterizes	Min	Typ	Max	Unit	Test Condition
V _R	Reverse Breakdown Voltage	100			V	I _R =0.5mA
V _F	Forward Voltage Drop			0.8	V	I _F =20A, T _J =25°C
				0.75		I _F =20A, T _J =125°C
I _R	Leakage Current			0.1	mA	V _R =100V, T _J =25°C
				20		V _R =100V, T _J =125°C

I-V Curves:

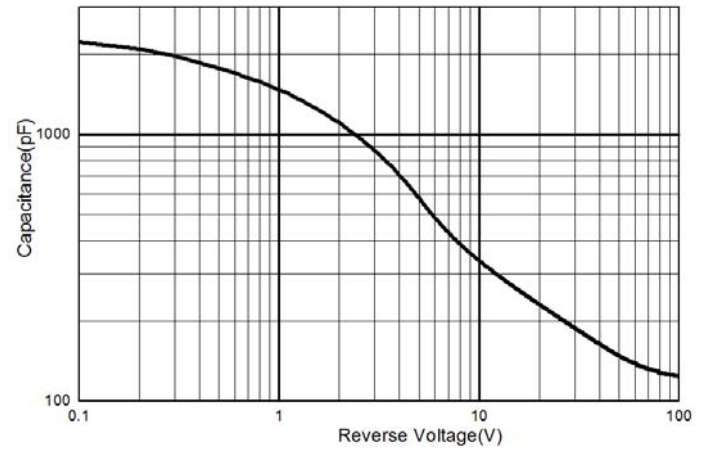
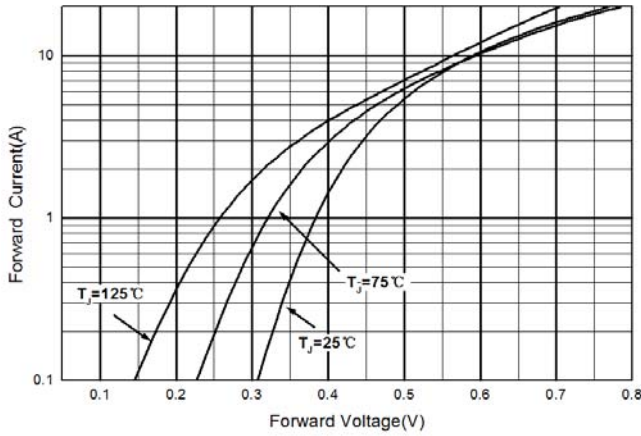


Figure 1: Typical Forward Characteristics

Figure 2: Typical Capacitance Characteristics

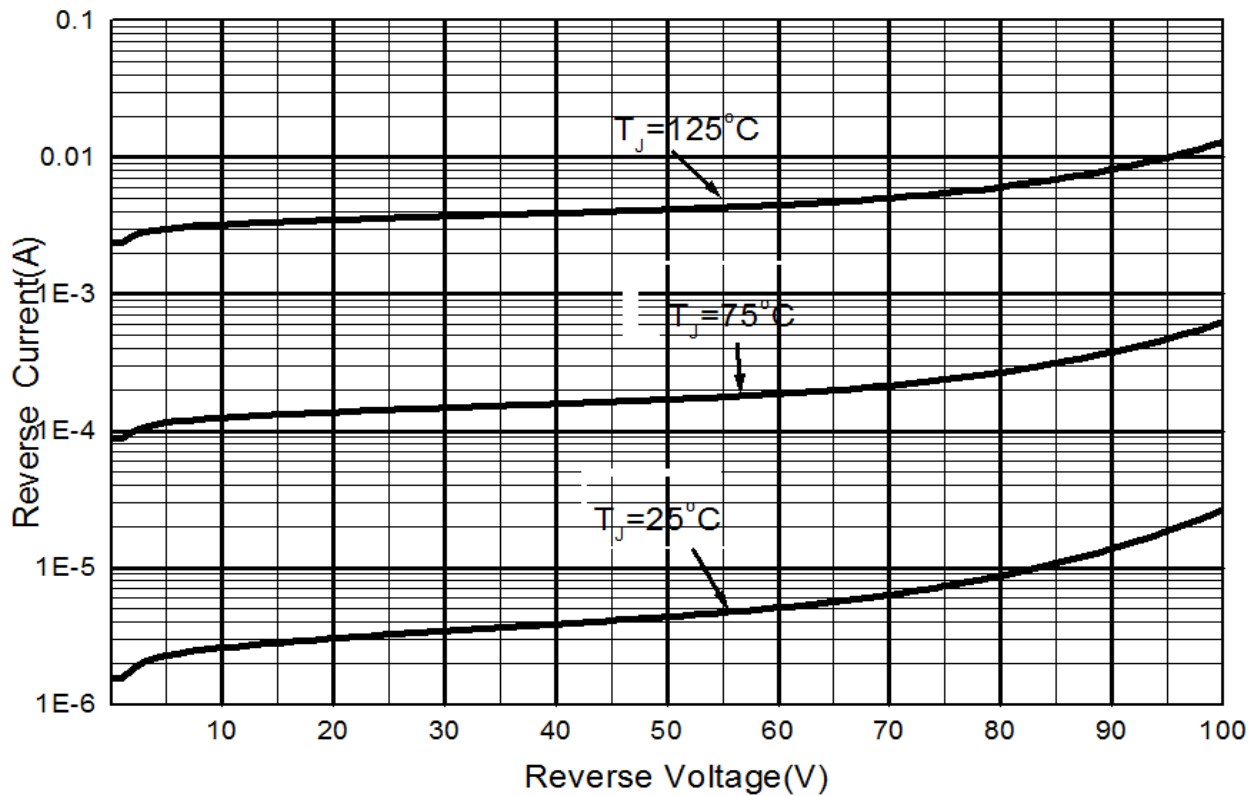
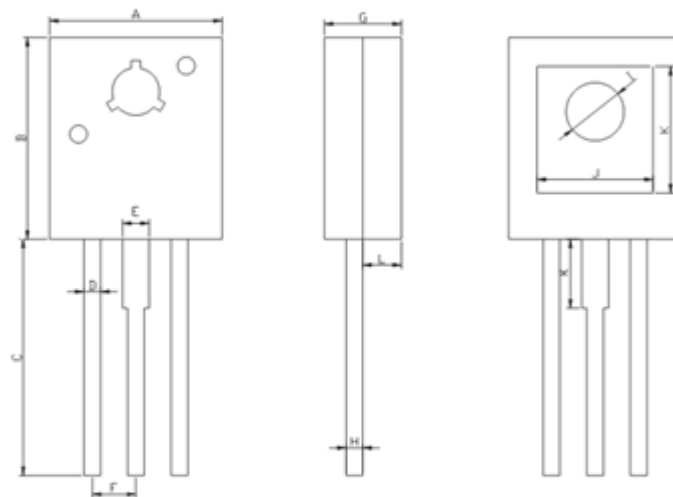


Figure 3: Typical Reverse Characteristics

Mechanical Data:

TO126:

TO-126外形尺寸图

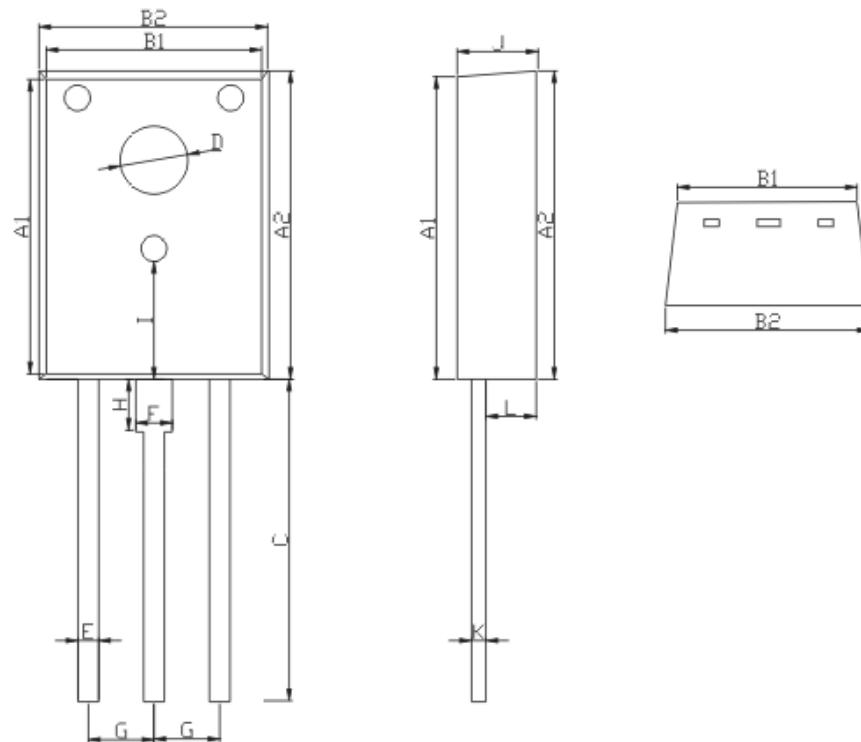


单位: mm

A: 7.6 ± 0.2	B: 10.8 ± 0.3	C: 16.0 ± 0.5	D: 0.7 ± 0.1	E: 1.27 ± 0.1
F: 2.29 ± 0.2	G: 2.7 ± 0.1	H: 0.5 ± 0.1	I: 3.15 ± 0.15	J: 5.07 ± 0.5
K: 7.5 ± 0.5	L: 1.5 ± 0.25	M: 2.1 ± 0.2		

TO126F:

T0-126F外形尺寸图



单位: mm

A1: 10.8±0.5	B1: 7.3±0.5	C: 16.0±1.0	D: 3.15±0.25	E: 0.8±0.1
F: 1.65±0.1	G: 2.29±0.15	H: 2.0±0.5	J: 3.3±0.25	K: 0.5±0.1
I: 1.8±0.25	A2: 11.0±0.5	B2: 7.8±0.5	I: 3.6±0.25	

Ordering and Marking Information
Device Marking: SSTS200100R&SSTS20100RF
Package (Available)
TO-126&TO126F
Operating Temperature Range
C : -55 to 150 °C
Devices per Unit

Package Type	Units/Tube	Tubes/Inner Box	Units/Inner Box	Inner Boxes/Carton Box	Units/Carton Box
TO126	50	20	1000	6	6000
TO126F	50	20	1000	6	6000

Reliability Test Program

Test Item	Conditions	Duration	Sample Size
High Temperature Reverse Bias(HTRB)	Tj=125°C to 175°C @ 80% of Max VDSS/VCES/VR	168 hours 500 hours 1000 hours	3 lots x 77 devices

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