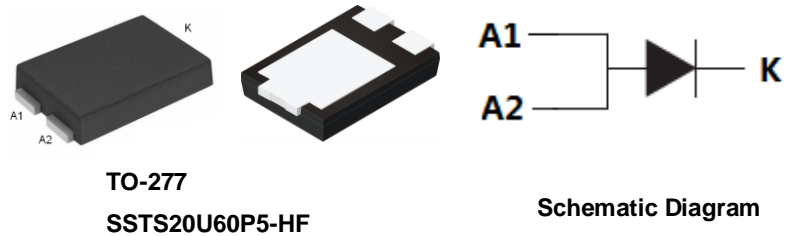


Main Product Characteristics:

IF	20A
VRRM	60V
Tj(max)	150°C
Vf(max)	0.5V


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	60	V
V _{R(RMS)}	RMS Reverse Voltage	42	V
I _{F(AV)}	Average Forward Current	20	A
I _{FSM}	Non Repetitive Surge Forward Current(tp=8.3ms sinusoidal)	200	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 _{θJA}	Maximum Thermal Resistance Junction To Ambient	73	°C/W

Electrical Characterizes @T_A=25°C unless otherwise specified

Symbol	Characterizes	Min	Typ	Max	Unit	Test Condition
V _R	Reverse Breakdown Voltage	60			V	I _R =0.5mA
V _F	Forward Voltage Drop		0.33	0.35	V	I _F =3A, T _J =25°C
			0.5	0.55		I _F =20A, T _J =25°C
			0.21			I _F =3A, T _J =125°C
			0.5			I _F =20A, T _J =125°C
I _R	Leakage Current		0.1	0.2	mA	V _R =60V, T _J =25°C
			30	100		V _R =60V, T _J =125°C

I-V Curves:

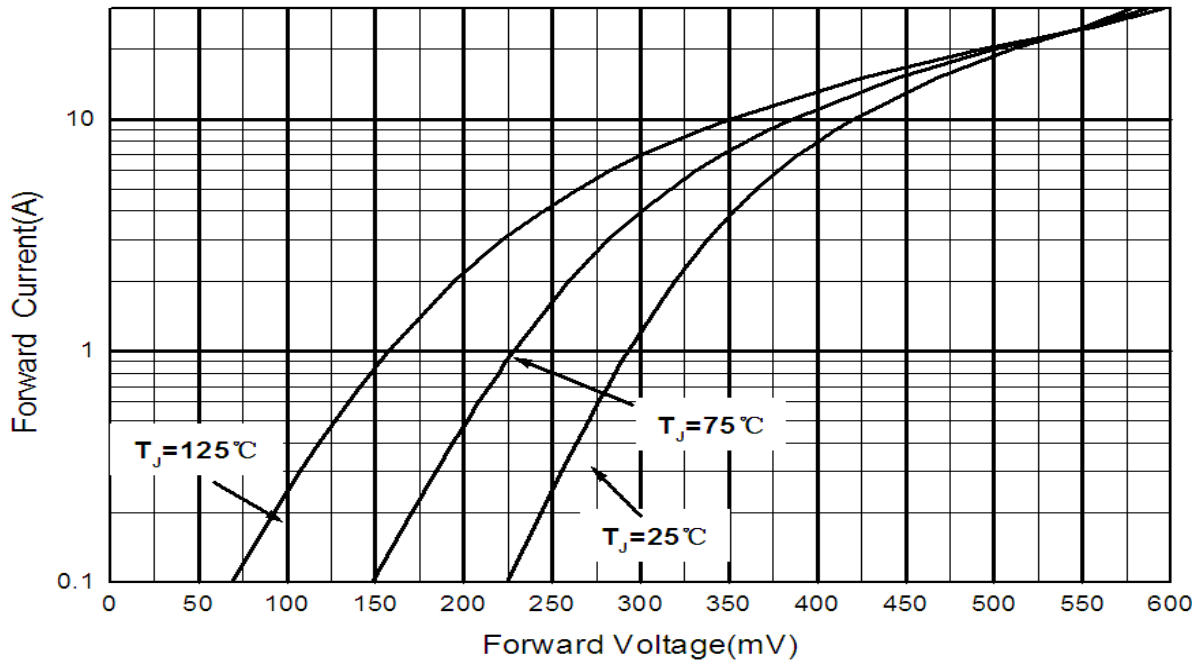


Figure 1: Typical Forward Characteristics

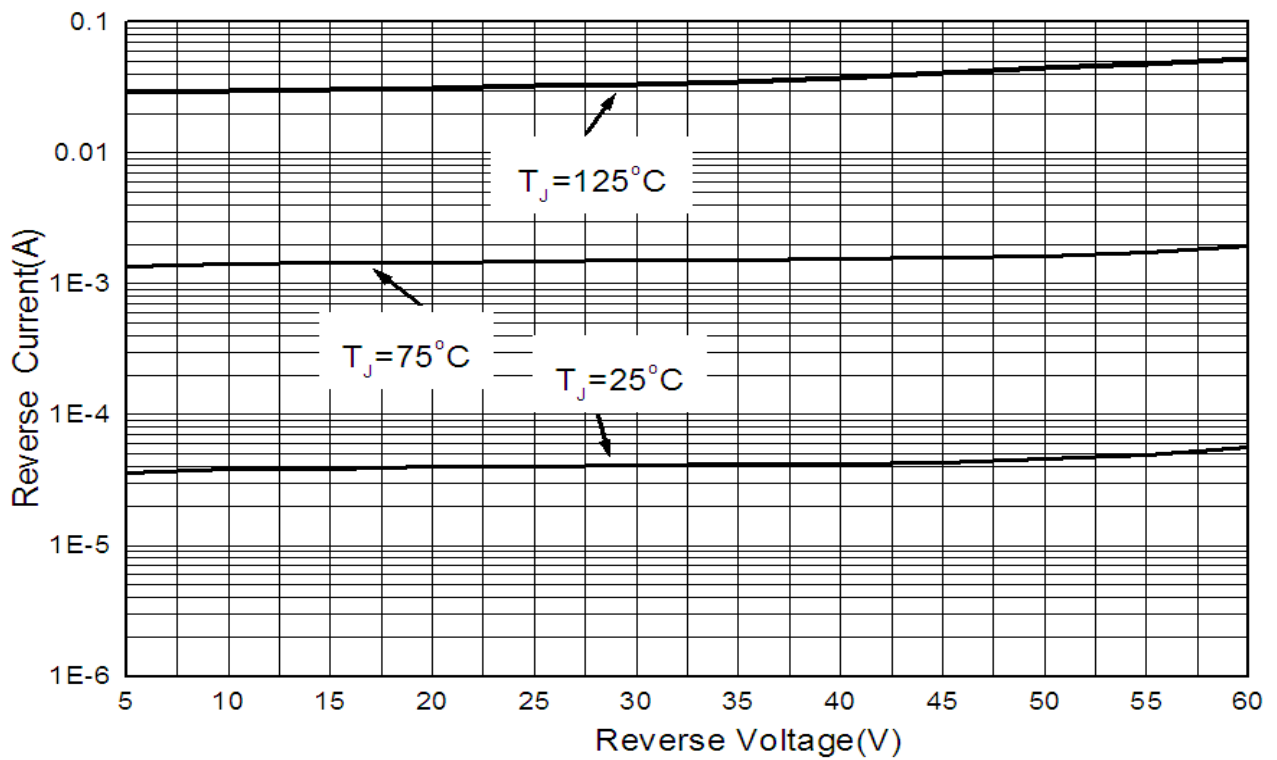
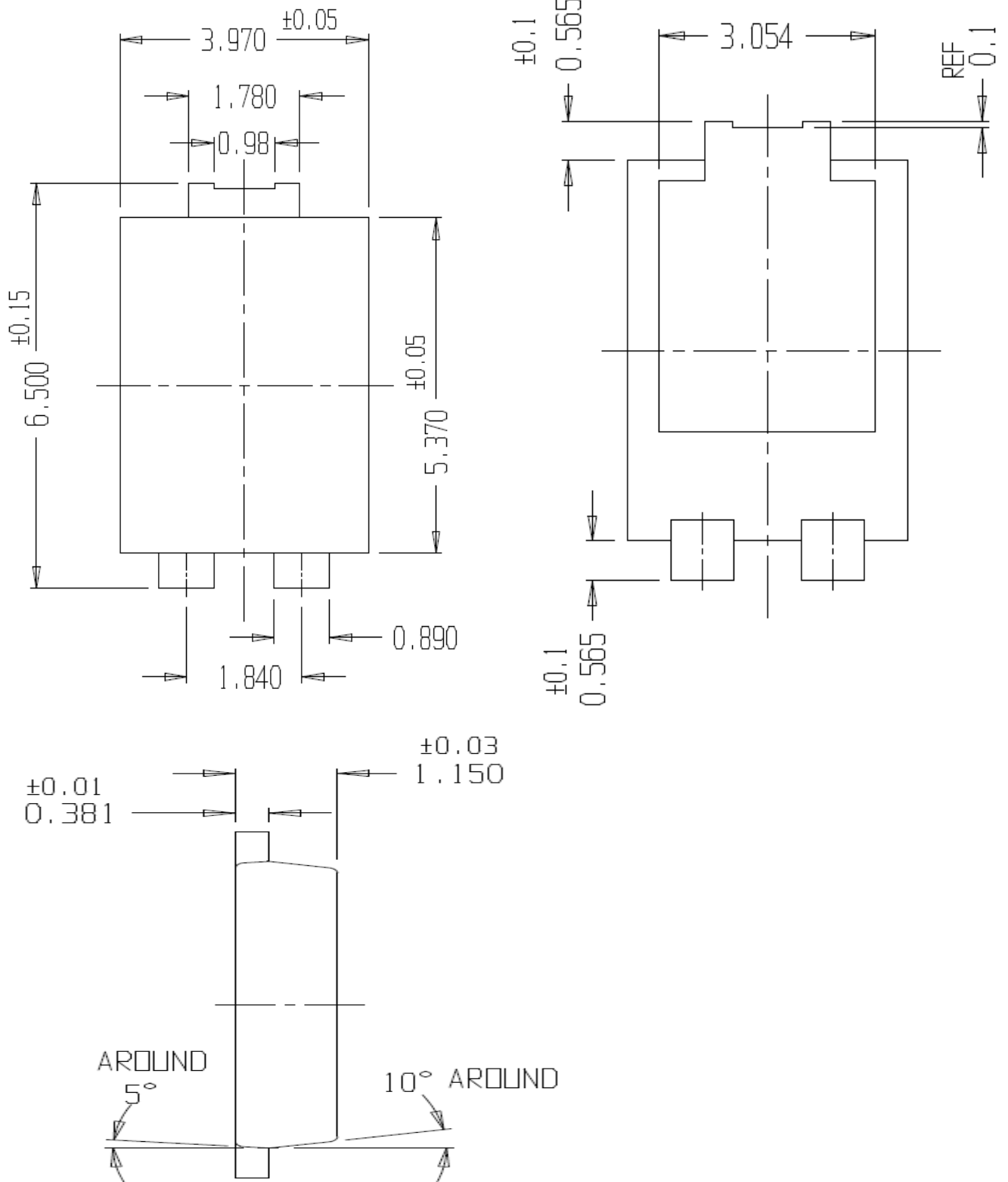


Figure 2: Typical Reverse Characteristics

Mechanical Data:

TO-277:



Ordering and Marking Information**Device Marking: SSTS20U60P5**

Package (Available)
TO-277
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
TO-277	3000	2	6000	6	36000

Reliability Test Program

Test Item	Conditions	Duration	Sample Size
High Temperature Reverse Bias(HTRB)	Tj=125°C to 150°C @ 80% of Max VDSS/VCES/VR	168 hours 500 hours 1000 hours	3 lots x 77 devices

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