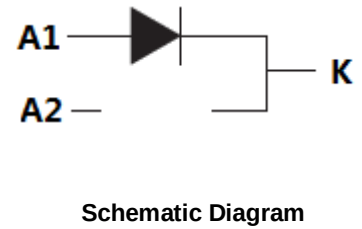


Main Product Characteristics:

IF	30A
VRRM	40V
Tj(max)	150°C
Vf(max)	0.53V


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		40	V
V _{R(RMS)}	RMS Reverse Voltage		28	V
I _{F(AV)}	Average Forward Current	Per diode	30	A
I _{FSM}	Non Repetitive Surge Forward Current(tp=8.3ms sinusoidal)		200	A
I _{RRM}	Peak Repetitive Reverse Surge Current(Tp=2us)		2	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 Case(per leg)	TO220	2	°C/W

Electrical Characterizes @T_A=25°C unless otherwise specified

Symbol	Characterizes	Min	Typ	Max	Unit	Test Condition
V _R	Reverse Breakdown Voltage	40			V	I _R =0.5mA
V _F	Forward Voltage Drop			0.53	V	I _F =30A, T _J =25°C
				0.48		I _F =30A, T _J =125°C
I _R	Leakage Current			0.5	mA	V _R =40V, T _J =25°C
				50		V _R =40V, T _J =125°C

I-V Curves:

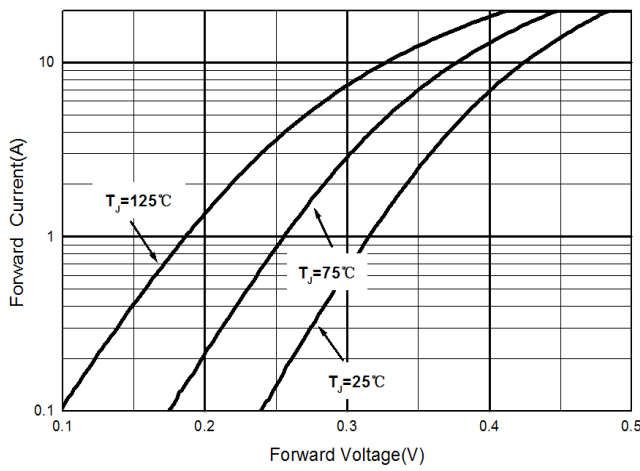


Figure 1: Typical Forward Characteristics

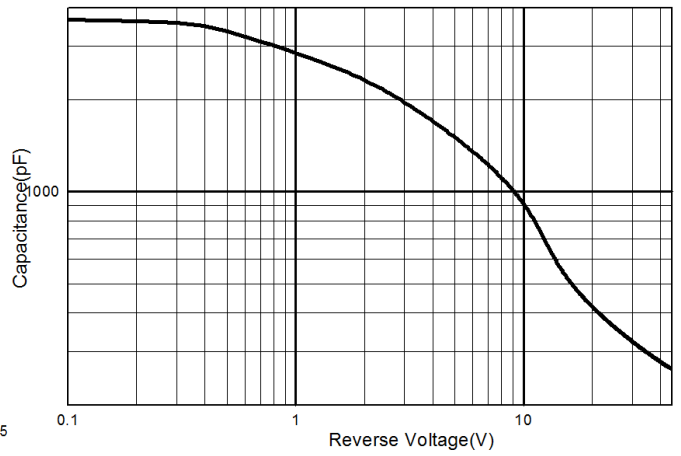


Figure 2: Typical Capacitance Characteristics

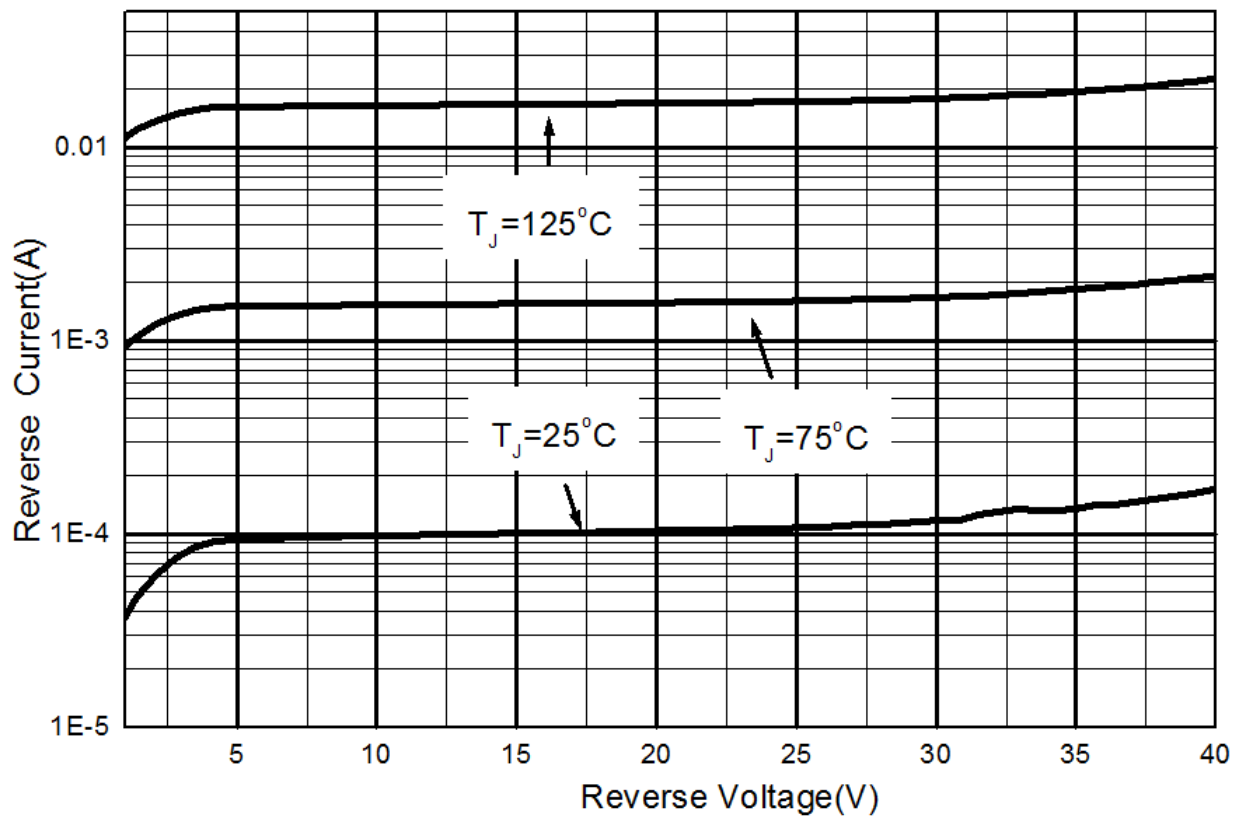
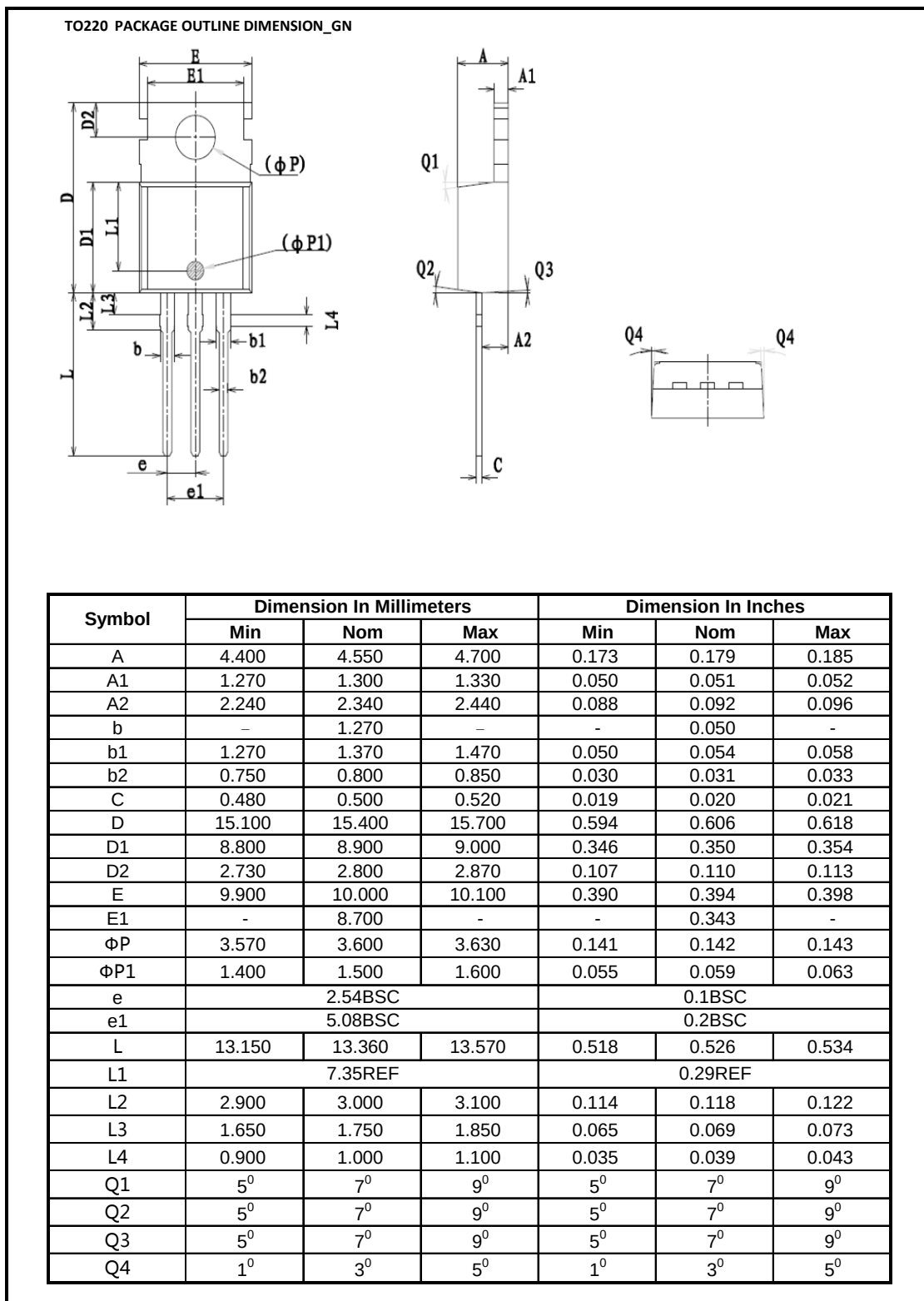


Figure 3: Typical Reverse Characteristics

Mechanical Data:


Ordering and Marking Information**Device Marking: SSTS3040CT****Package (Available)****TO-220****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
TO220	50	20	1000	6	6000

Reliability Test Program

Test Item	Conditions	Duration	Sample Size
High Temperature Reverse Bias(HTRB)	T_j=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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