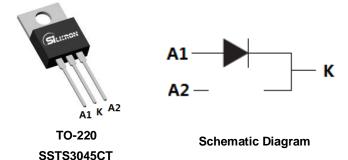


Main Product Characteristics:

IF	30A
VRRM	40V
T _j (max)	150 ℃
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 convertors; this product special design for high forward and reverse surge capability

Absolute Rating:

7 110 CO 1 1					
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	30	Α		
I _{FSM}	Non Repetitive Surge Forward Curre	200	Α		
I _{RRM}	Peak Repetitive Reverse Surge Curre	2	Α		
TJ	Maximum operation Junction Temper	-55~150	$^{\circ}$		
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$		

Thermal Resistance

Symbol	Characterizes	Value	Unit	
D	Maximum Thermal Resistance Junction To	TO220	2	°C/W
$R_{\theta JC}$	Case(per leg)	10220	2	C/VV

Electrical Characterizes @T_A=25°C unless otherwise specified

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



I-V Curves:

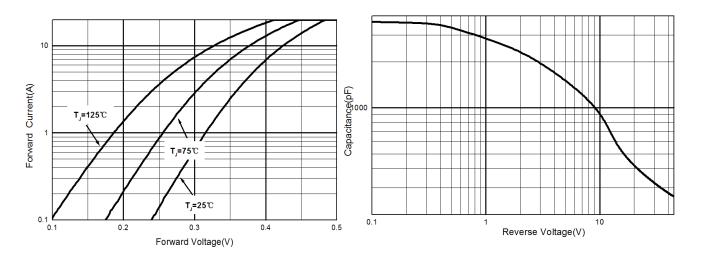


Figure 1: Typical Forward Characteristics Figure 2: Typical Capacitance Characteristics

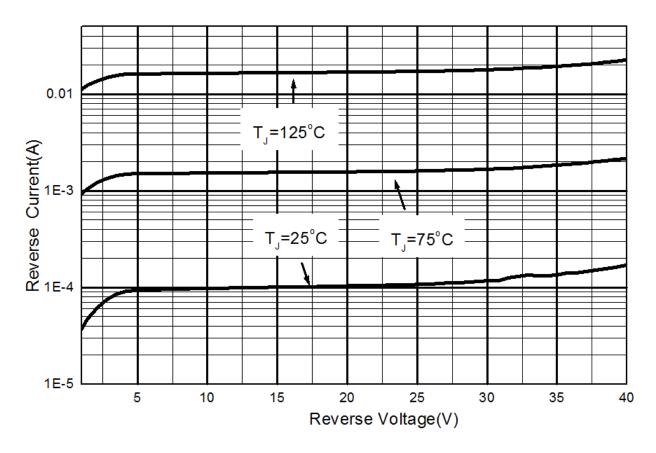
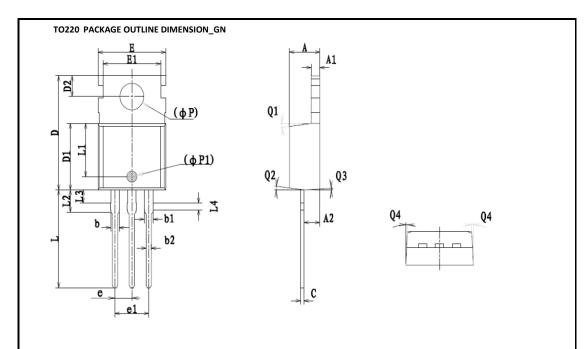


Figure 3: Typical Reverse Characteristics



Mechanical Data:



Symbol	Dime	nsion In Millin	neters	Dimension In Inches			
Зуппоп	Min	Nom	Max	Min	Nom	Max	
Α	4.400	4.550	4.700	0.173	0.179	0.185	
A1	1.270	1.300	1.330	0.050	0.051	0.052	
A2	2.240	2.340	2.440	0.088	0.092	0.096	
b	_	1.270	_	-	0.050	-	
b1	1.270	1.370	1.470	0.050	0.054	0.058	
b2	0.750	0.800	0.850	0.030	0.031	0.033	
С	0.480	0.500	0.520	0.019	0.020	0.021	
D	15.100	15.400	15.700	0.594	0.606	0.618	
D1	8.800	8.900	9.000	0.346	0.350	0.354	
D2	2.730	2.800	2.870	0.107	0.110	0.113	
Е	9.900	10.000	10.100	0.390	0.394	0.398	
E1	-	8.700	-	-	0.343	-	
ΦР	3.570	3.600	3.630	0.141	0.142	0.143	
ФР1	1.400	1.500	1.600	0.055	0.059	0.063	
е		2.54BSC		0.1BSC			
e1		5.08BSC		0.2BSC			
L	13.150	13.360	13.570	0.518	0.526	0.534	
L1		7.35REF		0.29REF			
L2	2.900	3.000	3.100	0.114	0.118	0.122	
L3	1.650	1.750	1.850	0.065	0.069	0.073	
L4	0.900	1.000	1.100	0.035	0.039	0.043	
Q1	5 ⁰	7 ⁰	90	5 ⁰	7 ⁰	90	
Q2	5 ⁰	7 ⁰	90	5 ⁰	7 ⁰	90	
Q3	5 ⁰	7 ⁰	90	5 ⁰	7 ⁰	90	
Q4	1 ⁰	3 ⁰	5 ⁰	1 ⁰	3 ⁰	5 ⁰	





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/Carto n Box
TO220	50	20	1000		6000

Reliability Test Program

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





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