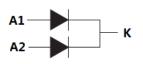


Main Product Characteristics:

IF	2×30A
VRRM	60V
T _j (max)	150 ℃
Vf(max)	0.65V





SSMD6060PT

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 convertors; this product special design for high forward and reverse surge capability

Absolute Rating:

Symbol	Characterizes	Value	Unit					
V_{RRM}	Peak Repetitive Reverse Voltage	erse Voltage		V				
$V_{R(RMS)}$	RMS Reverse Voltage	42	V					
1	Average Forward Current	Per diode	30	Α				
I _{F(AV)}		Per device	60	Α				
I _{FSM}	Non Repetitive Surge Forward Curre	300	Α					
I _{RRM}	Peak Repetitive Reverse Surge Curr	0.5	Α					
TJ	Maximum operation Junction Temper	-55~150	$^{\circ}$ C					
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$					

Thermal Resistance

Symbol	Characterizes	Value	Unit			
R _{e.IC}	Maximum Thermal Resistance Junction To Case (per leg)	1.2	°C/W			

Electrical Characterizes @T_A=25 °C unless otherwise specified

Symbol	Characterizes	Min	Тур	Max	Unit	Test Condition
\/	Reverse Breakdown	60			V	$I_R=0.5$ mA
V_R	Voltage	00	V		V	I _R =0.5IIIA
				0.6		I _F =15A, T _J =25℃
V_{F}	Forward Voltage Drop			0.65	V	I _F =30A, T _J =25℃
				0.58		I _F =30A, T _J =125℃
	Lookogo Current			0.2	mA	V _R =60V, T _J =25℃
I _R	Leakage Current			50		V _R =60V, T _J =125℃



I-V Curves:

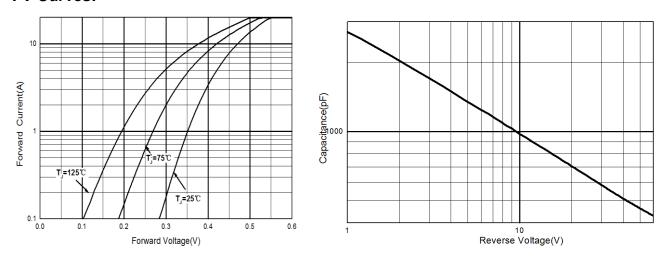


Figure 1: Typical Forward Characteristics Figure 2: Typical Capacitance Characteristics

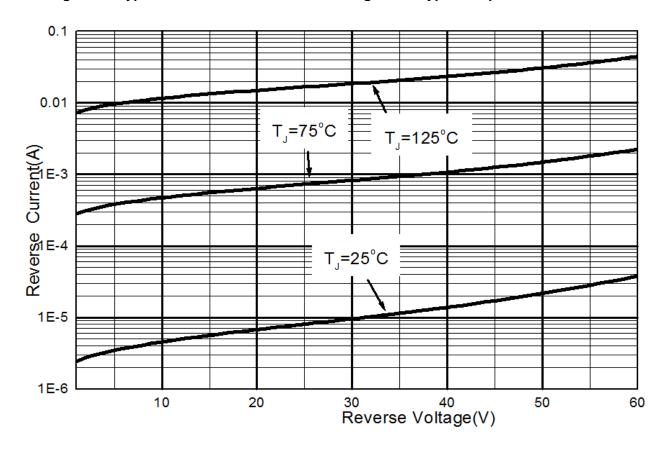
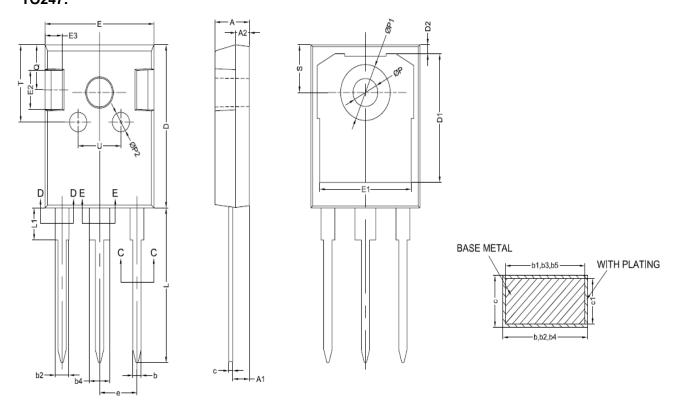


Figure 3: Typical Reverse Characteristics





Mechanical Data: TO247:



Cumbal	Din	nension In Millime	ters	Dimension In Inches		
Symbol	Min	Nom	Max	Min	Nom	Max
Α	4.900	5.000	5.100	0.193	0.197	0.201
A1	2.300	2.405	2.510	0.091	0.095	0.099
A2	1.900	2.000	2.100	0.075	0.079	0.083
b	1.160	-	1.260	0.046	-	0.050
b1	1.150	1.185	1.220	0.045	0.047	0.048
b2	1.960	-	2.060	0.077	-	0.081
b3	1.950	1.985	2.020	0.077	0.078	0.080
b4	2.960	-	3.060	0.117	-	0.120
b5	2.950	2.985	3.020	0.116	0.118	0.119
С	0.590	-	0.660	0.023	-	0.026
c1	0.580	0.600	0.620	0.023	0.024	0.024
D	20.900	21.000	21.100	0.823	0.827	0.831
D1	16.250	16.550	16.850	0.640	0.652	0.663
D2	1.050	1.200	1.350	0.041	0.047	0.053
Е	15.700	15.800	15.900	0.618	0.622	0.626
E1	13.100	13.300	13.500	0.516	0.524	0.531
E2	4.900	5.000	5.100	0.193	0.197	0.201
E3	2.400	2.500	2.600	0.094	0.098	0.102
е		5.44BSC		0.214BSC		
L	19.800	19.950	20.100	0.780	0.785	0.791
L1	-	-	4.300	-	-	0.169
Р	3.500	3.600	3.700	0.138	0.142	0.146
P1	-	-	7.400	-	-	0.291
P2	2.400	2.500	2.600	0.094	0.098	0.102
Q	5.600	-	6.000	0.220	-	0.236
S		6.15BSC		0.242BSC		
Т	9.800	-	10.200	0.386	-	0.402
U	6.000	-	6.400	0.236	-	0.252





Ordering and Marking Information

Device Marking: SSMD6060PT

Package (Available)
TO-247
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

Reliability Test Program

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

Version: 1.0



5of5

page



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