



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

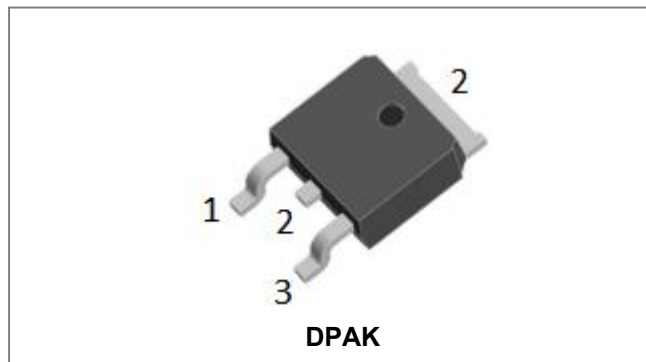
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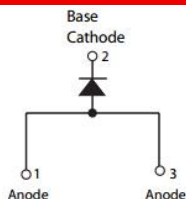
## SDD660 STANDARD RECTIFIER



### Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Low Power Loss
- Built Strain Relief
- Plastic Case Material has UL Flammability Classification Rating 94V-0
- This is a Pb – Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

### Circuit Diagram



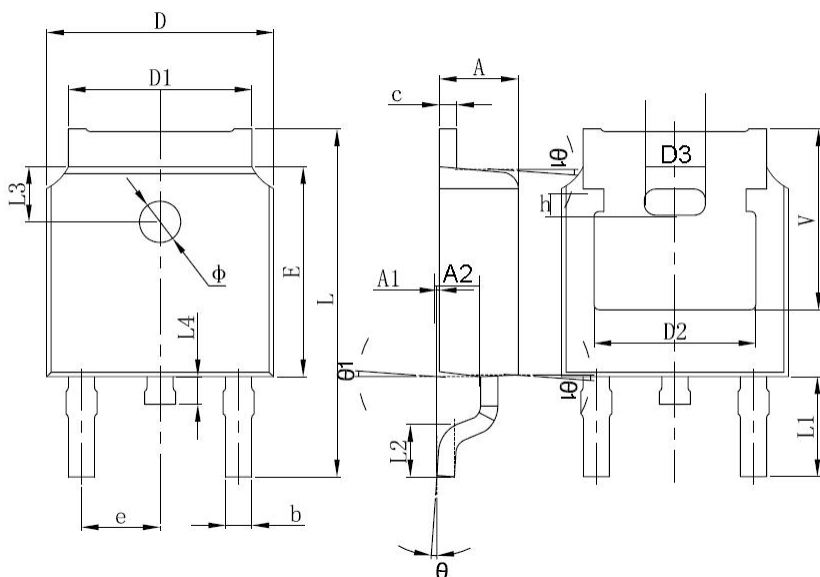
### Mechanical data

- Case: Molded Plastic
- Terminals: Solder Plated , Solderable Per MIL-STD 750, Method 2026
- Weight: 0.39 grams(Approx)

### Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	SDD660	Units
Maximum Peak Repetitive Reverse Voltage Maximum DC Blocking Voltage	V <sub>RRM</sub> V <sub>R</sub>	600	V
Maximum RMS Voltage	V <sub>RMS</sub>	420	
Maximum Average Forward Rectified Current 0.375"(9.5mm) Lead Length @T <sub>C</sub> = 105°C	I <sub>(AV)</sub>	6.0	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	70	A
Maximum Instantaneous Forward Voltage @I <sub>F</sub> = 6.0A	V <sub>F</sub>	1.1	V
Maximum DC Reverse Current At Rated DC Blocking Voltage @T <sub>A</sub> = 25°C	I <sub>R</sub>	5	uA
Maximum Thermal Resistance Junction to Case	R <sub>θJC</sub>	5	°C/W
Operating Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C
Operating Junction Temperature	T <sub>J</sub>	-55 to +150	°C

**Mechanical Dimensions DPAK**


SYMBOL	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	2.20	2.40	0.087	0.094
A1	0.00	0.127	0.000	0.005
b	0.66	0.86	0.026	0.034
c	0.46	0.60	0.018	0.024
D	6.50	6.70	0.256	0.264
D1	5.13	5.46	0.202	0.215
D2	4.83	REF.	0.190	REF.
E	6.00	6.20	0.236	0.244
e	2.186	2.386	0.086	0.094
L	9.70	10.40	0.381	0.409
L1	2.90	REF.	0.144	REF.
L2	1.40	1.70	0.055	0.067
L3	1.60	REF.	0.063	REF.
L4	0.60	1.00	0.024	0.039
Φ	1.10	1.30	0.043	0.051
θ	0°	8°	0°	8°
h	0.00	0.30	0.000	0.012
V	5.35	REF.	0.211	REF.

**Ordering Information**

Device	Package	Shipping
SDD660	DPAK (Pb-Free)	2500pcs / reel

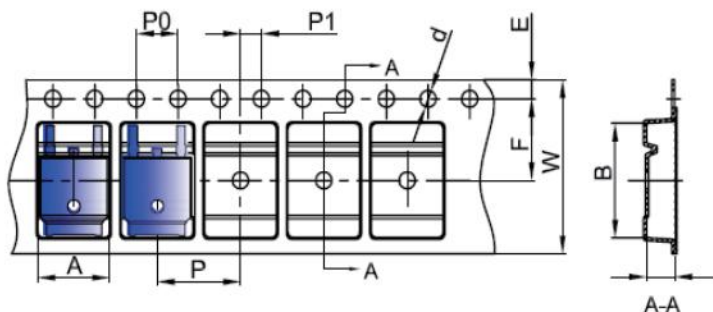
For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

**Marking Diagram**


Where XXXXX is YYWWL

SDD660 = Part Name  
SSG = SSG  
YY = Year  
WW = Week  
L = Lot Number

**Cautions:** Molding resin  
Epoxy resin UL:94V-0

**Carrier Tape Specification DPAK**


SYMBOL	Millimeters	
	Min.	Max.
A	6.80	7.00
B	10.40	10.60
C	2.60	2.80
d	Φ1.45	Φ1.65
E	1.65	1.85
F	7.40	7.60
P0	3.90	4.10
P	7.90	8.10
P1	1.90	2.10
W	15.90	16.30



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