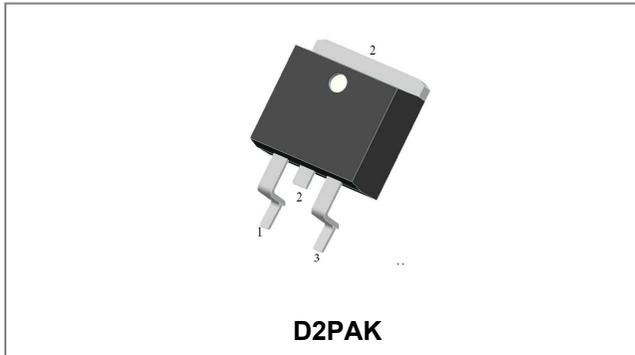


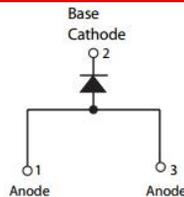
SDB2080 STANDARD RECTIFIER



Features

- 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

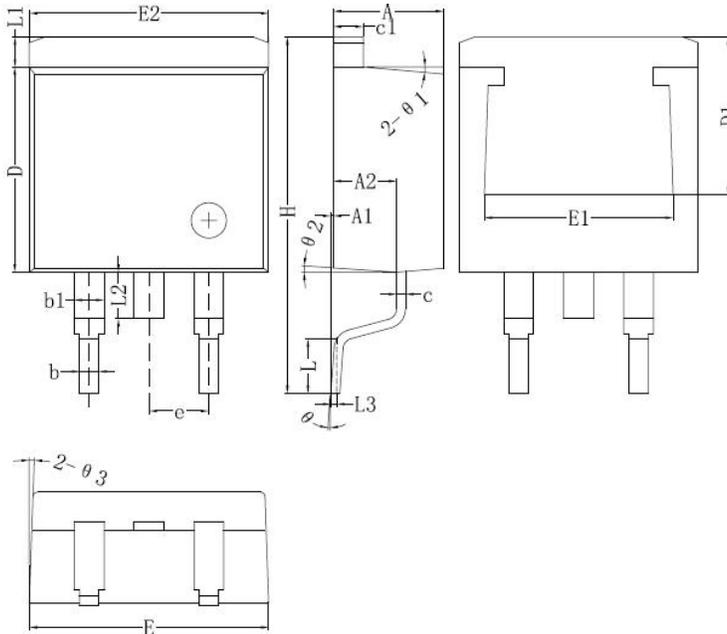
- Case: Molded Plastic
- Terminals: Solder Plated , Solderable Per MIL-STD 750, Method 2026
- Weight: 1.85 grams(Approx)

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

Characteristic	Symbol	SDB2080	Unit
Maximum Peak Repetitive Reverse Voltage Maximum DC Blocking Voltage	V _{RRM} V _R	800	V
Maximum Average Forward Rectified Current @T _C = 105°C	I _(AV)	20	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	300	A
Maximum Instantaneous Forward Voltage @I _F = 20A	V _F	1.1	V
Maximum DC Reverse Current At Rated DC Blocking Voltage @T _A = 25°C	I _R	100	uA
Maximum Thermal Resistance Junction to Case	R _{θJC}	1.3	°C/W
Operating Storage Temperature Range	T _{STG}	-40 to +150	°C
Operating Junction Temperature	T _J	-40 to +150	°C

Mechanical Dimensions D2PAK



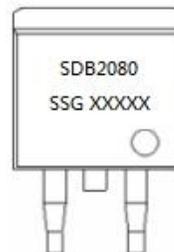
Symbol	Millimeters		
	Min.	Typical	Max.
A	4.47	4.70	4.85
A1	0	0.10	0.25
A2	2.59	2.69	2.89
b	0.71	0.81	0.96
b1	1.17	1.27	1.37
c	0.31	0.38	0.61
c1	1.17	1.27	1.37
D	8.50	8.70	8.90
D1	6.40	6.65	
E	10.01	10.16	10.31
E1	7.60	7.70	
E2	9.98	10.08	10.31
e		2.54	
H	14.60	15.1	15.60
L	2.00	2.30	2.74
L1	1.12	1.27	1.42
L2	1.30		2.20
L3		0.25BSC	
e	0	-	8°
e1		5°	
e2		4°	
e3		4°	

Ordering Information

Device	Package	Shipping
SDB2080	D2PAK (Pb-Free)	800pcs / reel
SDB2080TR	D2PAK (Pb-Free)	800pcs / 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

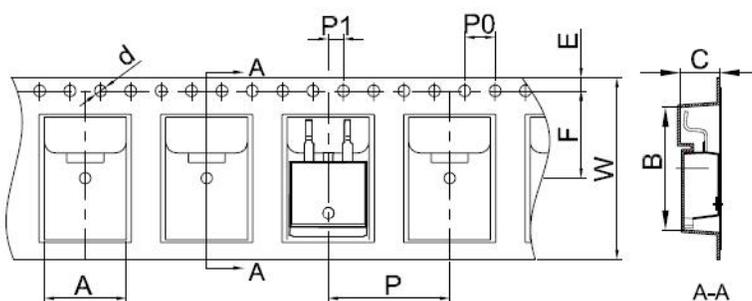


Where XXXXX is YYWWL

SDB2080 = Part Name
SSG = SSG
YY = Year
WW = Week
L = Lot Number

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

Carrier Tape Specification D2PAK



Symbol	Millimeters	
	Min.	Max.
A	10.70	10.90
B	16.03	16.23
C	5.11	5.31
d	1.45	1.65
E	1.65	1.85
F	11.40	11.60
P0	3.90	4.10
P	15.90	16.10
P1	1.90	2.10
W	23.90	24.30

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