Green Products

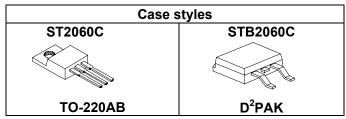
ST2060C/STB2060C SCHOTTKY RECTIFIER

Applications:

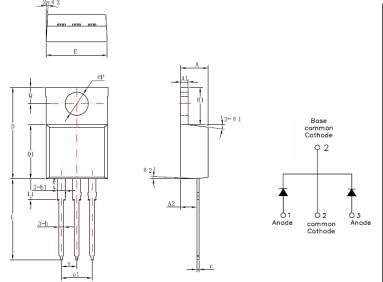
- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection

Features:

- 150 °C T_J operation
- Center tap configuration
- Ultralow forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- High frequency operation
- . Guard ring for enhanced ruggedness and long term reliability
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request



Mechanical Dimensions: In mm



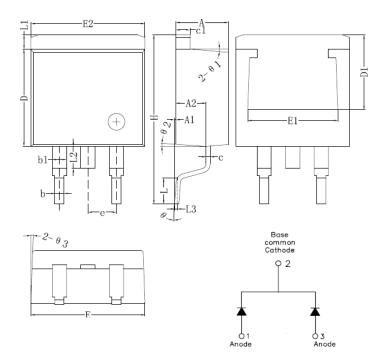
Combal	Dimensions in			
Symbol	millimeters			
	Min	Typical	Max	
Α	4.42	4.57	4.72	
A1	1.17	1.27	1.37	
A2	2.59	2.69	2.89	
b	0.71	0.81	0.96	
b1		1.27		
С	0.36	0.38	0.61	
D	14.94	15.24	15.54	
D1	8.85	9.00	9.15	
E	10.01	10.16	10.31	
e		2.54		
e1		5.06		
H1	6.04	6.24	6.44	
L	12.7	13.56	13.78	
L1		3.5		
ΦР	3.74	3.84	4.04	
Q	2.54	2.74	2.94	
Θ1		7°		
Θ2		3°		
Θ3		4°		

TO-220AB

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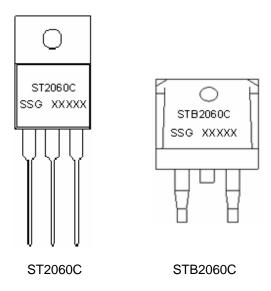
	Dimensions in			
Symbol	millimeters			
	Min.	Typical	Max.	
Α	4.55	4.70	4.85	
A1	0	0.10	0.25	
A2	2.59	2.69	2.89	
b	0.71	0.81	0.96	
b1		1.27		
С	0.36	0.38	0.61	
c1	1.17	1.27	1.37	
D	8.55	8.70	8.85	
D1	6.40			
E	10.01	10.16	10.31	
E1	7.6			
E2	9.98	10.08	10.18	
е		2.54		
Н	14.6	15.1	15.6	
L	2.00	2.30	2.70	
L1	1.17	1.27	1.40	
L2			2.20	
L3		0.25BSC		
е	0	-	8°	
e1		5°		
e2		4°		
e3		4°		

 D^2PAK



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Marking Diagram:



Where XXXXX is YYWWL

ST = Device Type B = Package type

20 = Forward Current (20A) 60 = Reverse Voltage (60V)

C = Configuration SSG = SSG

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
ST2060C	TO-220AB(Pb-Free)	50pcs / tube
STB2060C	D ² PAK(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.

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	60	V
Average Forward Current	I _{F(AV)}	50% duty cycle @T _C = 105C, rectangular wave form	20	А
Peak One Cycle Non-Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse	150	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop (per	V_{F1}	@ 10A, Pulse, T _J = 25 °C	0.65	V
leg) *	V_{F2}	@ 10A, Pulse, T _J = 125 °C	0.59	V
Reverse Current (per leg)	I _{R1}	$@V_R = \text{rated } V_R$ $T_J = 25 ^{\circ}\text{C}$	0.85	mA
	I _{R2}	$@V_R = \text{rated } V_R$ $T_J = 125 ^{\circ}\text{C}$	40	mA

Pulse Width < 300µs, Duty Cycle <2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Case(per leg)	$R_{ heta JC}$	DC operation	3	°C/W
Approximate Weight	wt	-	2/1.85	g
Case Style		TO-220AB/ D ² PAK		



ST2060C STB2060C

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Technical Data
Data Sheet N1421, Rev. -

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