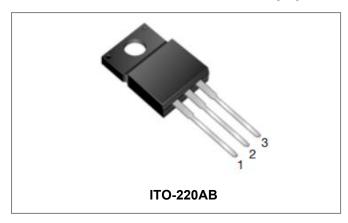


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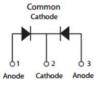
STF15200C(R) SCHOTTKY RECTIFIER

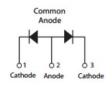


Features

- 150 °C T_J operation
- 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
- Trench MOS Schottky technology
- This is a Pb Free Device
- . All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram





STF15200C

STF15200CR

Applications

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

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	200	V
Average Rectified Forward Current	I _{F (AV)}	50% duty cycle @Tc=100°C, rectangular wave form	7.5(Per Leg) 15(Per Device)	Α
Peak One Cycle Non-Repetitive Surge Current(Per Leg)	I _{FSM}	8.3ms, Half Sine pulse, Tc=25°C	130	Α

Electrical Characteristics:

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop(Per Leg)*	V _{F1}	@ 7.5A, Pulse, T _J = 25°C	-	1.60	V
	V _{F2}	@ 7.5A, Pulse, T _J = 125℃	-	0.73	V
Reverse Current(Per Leg)*	I _{R1}	@V _R = rated V _R , T _J = 25 °C	-	0.23	mA
	I _{R2}	$@V_R = \text{rated } V_{R}, T_J = 125^{\circ}C$	-	15	mA
RSM Isolation Voltage (t = 1.0 second, R. H. < =30%, T _A = 25 °C)		Clip mounting, the epoxy body away from the heatsink edge by more than 0.110" along the lead direction.	-	4500	
, and the second	V _{ISO}	Clip mounting, the epoxy body is inside the heatsink.	-	3500	V
		Screw mounting, the epoxy body is inside the heatsink.	-	1500	

^{*} Pulse width < 300 μs, duty cycle < 2%

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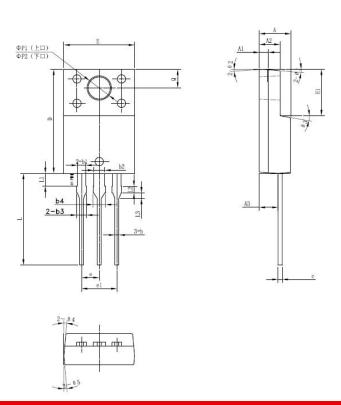




Thermal-Mechanical Specifications:

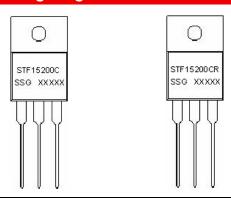
Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Typical Thermal Resistance Junction to	R ₀ JC	DC operation	5.5	°C/W
Case(Per Leg)				
Approximate Weight	wt	-	2	g
Case Style	ITO-220AB			

Mechanical Dimensions ITO-220AB



CVMPOL	Millimeters			
SYMBOL	MIN.	TYP.	MAX.	
Α	4.30	4.50	4.70	
A1	1.10	1.30	1.50	
A2	2.80	3.00	3.20	
A3	2.50	2.70	2.90	
b	0.50	0.60	0.75	
b1	1.10	1.20	1.35	
b2	1.50	1.60	1.75	
b3	1.20	1.30	1.45	
b4	1.60	1.70	1.85	
С	0.50	0.60	0.75	
D	14.80	15.00	15.20	
E	9.96	10.16	10.36	
е		2.55		
e1		5.10		
H1	6.50	6.70	6.90	
L	12.70	13.20	13.70	
L1	1.60	1.80	2.00	
L2	0.80	1.00	1.20	
L3	0.60	0.80	1.00	
ΦP1 (上□)	3.30	3.50	3.70	
ΦP2 (下口)	2.99	3.19	3.39	
Q	2.50	2.70	2.90	
Θ1		5°		
Θ2		4°		
Θ3		10°		
Θ4		5°		
Θ5		5°		

Marking Diagram



Where XXXXX is YYWWL

ST = Device Type
F = Package type
15 = Forward Current (15A)
200 = Reverse Voltage (200V)
C(R) = Configuration

C(R) = Configuration
SSG = SSG
YY = Year
WW = Week
L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

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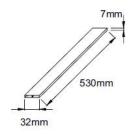


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Tube Specification



Ordering Information

Device	Package	Shipping
STF15200C(R)	ITO-220AB (Pb-Free)	50 pcs/ tube

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

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