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STF10200C(R) SCHOTTKY RECTIFIER

Applications:

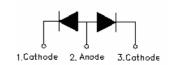
- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection

Features:

- 150 ℃ 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

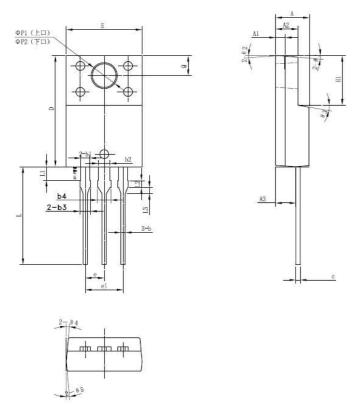


STF10200C



STF10200CR

Mechanical Dimensions: In mm



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
A2 A3	2.50	2.70	3.20 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
	0.55	0.60	0.75
C D E	14.80	15.00	15.20
	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 L2	1.60	1.80	2.00 1.20
L2	0.80	1.00	1.20
L3	0.60	0.80	1.00
ΦP1(上口)	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		5° 4°	
Θ3		10°	
Θ4		5°	
Θ5		5°	

ITO-220AB

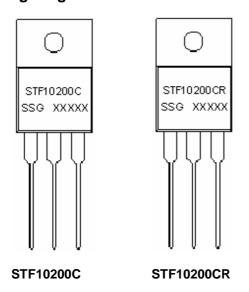
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Marking Diagram:



Where XXXXX is YYWWL

S = Device Type T = Ultralow VF F = Package type

10 = Forward Current (10A) 200 = Reverse Voltage (200V)

C(R) = Configuration

 SSG
 = SSG

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

Cautions: Molding resin

Epoxy resin UL: 94V-0

Ordering Information:

Device	Package	Shipping
STF10200C(R)	ITO-220AB	FOnce / tube
	(Pb-Free)	50pcs / tube

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}	-	200	V
Average Forward Current	I _{F(AV)}	50% duty cycle @T _C =105 °C rectangular wave form	10	Α
Peak One Cycle Non- Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse	120	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop (per	V_{F1}	@ 5A, Pulse, T _J = 25 °C	1.60	V
leg)*	V_{F2}	@ 5A, Pulse, T _J = 125 °C	0.73	V
Reverse Current (per leg)	I _{R1}	$@V_R = \text{rated } V_R$ $T_J = 25 ^{\circ}C$	0.15	mA
Reverse Current (per leg) *	I _{R2}	$@V_R = \text{rated } V_R$ $T_J = 125 ^{\circ}\text{C}$	10	mA
Junction Capacitance (per leg)	C _T	$@V_R = 5V, T_C = 25 °C f_{SIG} = 1MHz$	300	pF
Voltage Rate of Change	dv/dt	-	10,000	V/μs
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	
·	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 < 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 _{eJC}	DC operation	7.0	°C/W
Approximate Weight	wt	-	2	g
Case Style		ITO-220AB	•	•

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