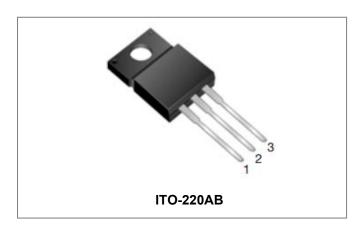






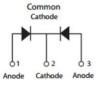
STF40200C(R) SCHOTTKY RECTIFIER

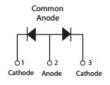


Features

- 175 °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
- Trench MOS Schottky technology
- Terminals finish: 100% Pure Tin
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram





STF40200C

STF40200CR

Applications

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

Maximum Ratings(limiting values, at 25 °C unless otherwise specified)

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage	V _{RRM} V _{RWM}	-	200	V
DC Blocking Voltage Average Rectified Forward Current	V _R	50% duty cycle @Tc=100°C, rectangular wave form	20(Per Leg) 40(Per Device)	А
Peak One Cycle Non-Repetitive Surge Current(Per Leg)	I _{FSM}	8.3ms, Half Sine pulse	250	А

Electrical Characteristics:

Characteristics	Symbol	Symbol Condition		Max.	Units
Forward Voltage Drop (Per Leg)*	V _{F1}	@ 20A, Pulse, T _J = 25 °C	0.86	1.60	V
	V _{F2}	@ 20A, Pulse, T _J = 125 °C	0.72	0.76	V
Reverse Current(Per Leg)*	I _{R1}	@V _R = rated V _R , T _J = 25 °C	0.0002	0.3	mA
	I _{R2}	@V _R = rated V _R , T _J = 125 °C	0.5	36	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	
,	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%

- China Germany Korea Singapore United States
 - http://www.smc-diodes.com
 sales@ smc-diodes.com



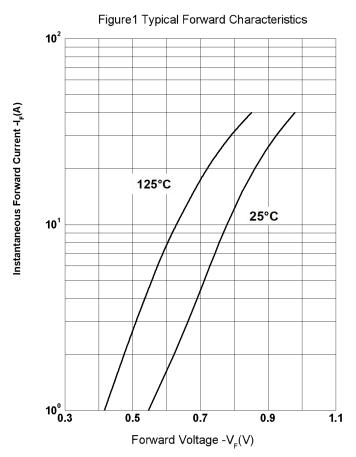


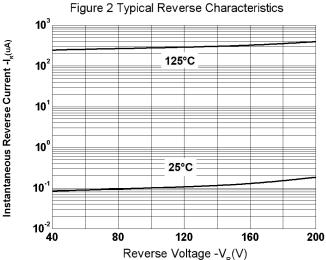


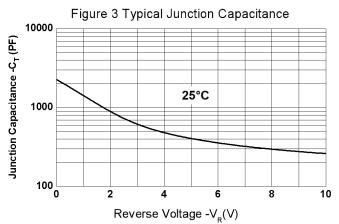
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +175	°C
Storage Temperature	T _{stg}	-	-55 to +175	Ô
Typical Thermal Resistance Junction to Case	$R_{ heta JC}$	DC operation	4	°C/W
Approximate Weight	wt	-	2	g
Case Style	ITO-220AB			

Ratings and Characteristics Curves







[•] China - Germany - Korea - Singapore - United States •

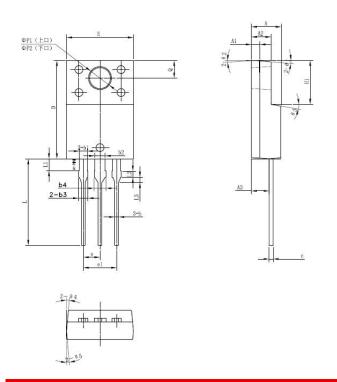
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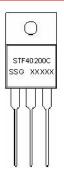


Mechanical Dimensions ITO-220AB



SYMBOL	Millimeters			
STWIBUL	MIN.	TYP.	MAX.	
A	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	
ФР1(├□)	3.30	3.50	3.70	
ΦP2(下□)	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
40 = Forward Current (40A)
200 = Reverse Voltage (200V)
C(R) = Configuration
SSG = SSG
YY = Year
WW = Week
L = Lot Number

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

Tube Specification



Ordering Information

Device	Package	Shipping
STF40200C(R)	ITO-220AB (Pb-Free)	50 pcs/ tube

- China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com •







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