

Green Products

STF30150C(R) SCHOTTKY RECTIFIER

Applications:

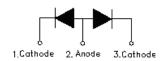
- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection

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



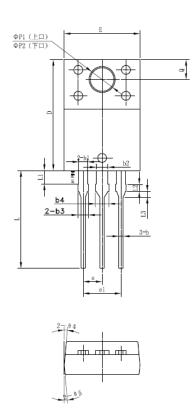
STF30150C

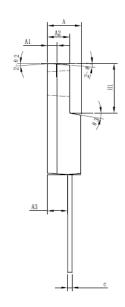


STF30150CR

MAX.

Mechanical Dimensions: In mm





А	4.30	4.50	4.70
A1	1.10	1.30	1.50
A2	2.80	3.00	3.20
A1 A2 A3	2.50	1.30 3.00 2.70	2.90
b	0.50	0.60	0.75
b1	1.10	1.20	1.35
b2	1.50	1.60	3.20 2.90 0.75 1.35
b3	1.20	1.30	1.45
	1.60	1.70	1.85
b4 c D E	0.55	0.60	0.75
D	14.80	15.00 10.16	15.20
E	9.96	10.16	10.36
е		2.55	
e1		2.55 5.10 6.70	
H1	6.50	6.70	6.90
L L1	12.70	13.20 1.80 1.00	13.70
L1	12.70 1.60	1.80	2.00
L2	0.80	1.00	1.20
L3	0.60	0.80	1.00
ΦP1(남.口)	3.30	3 50	13.70 2.00 1.20 1.00 3.70
かP2(玉口)	2.99	3.19	3.39
Q	2.50	2.70	2.90
Θ1		5°	
Q		3.19 2.70 5° 4° 10°	
Θ3		10°	
Θ4		5° 5°	
Θ5		5°	

MIN.

TYP.

SYMBOL

ITO-220AB

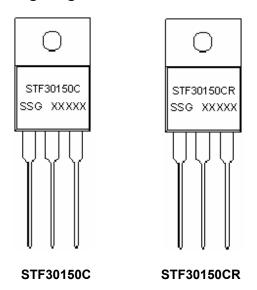
[•] Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 🗏 (86) 25-87123907 •

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Marking Diagram:



Where XXXXX is YYWWL

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

30 = Forward Current (30A) 150 = Reverse Voltage (150V)

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	
STF30150C(R)	ITO-220AB	FOrce / 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}	-	150	V
Average Forward Current	I _{F(AV)}	50% duty cycle @T _C =100°C rectangular wave form	30	А
Peak One Cycle Non- Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse	200	Α

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Electrical Characteristics:

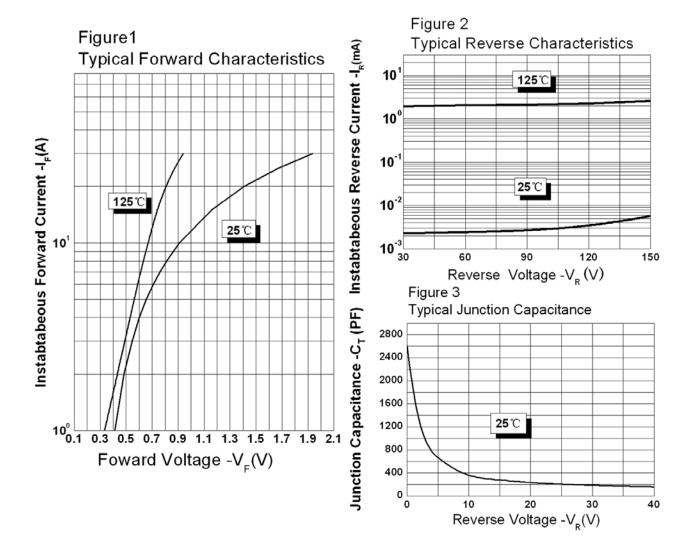
Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop (per		@ 5A, Pulse, T _J = 25 °C	0.66	-	
leg)*	V_{F1}	@ 7.5A, Pulse, T _J = 25 °C	0.79	-	V
		@ 15A, Pulse, T _J = 25 °C	1.16	1.36	
		@ 5A, Pulse, T _J = 125 °C	0.56	-	
	V_{F2}	@ 7.5A, Pulse, T _J = 125 °C	0.62	-	V
		@ 15A, Pulse, T _J = 125 °C	0.74	0.79	
Reverse Current (per leg)		@V _R = rated V _R	0.006	0.2	mA
	I _{R1}	T _J = 25 °C	0.000	0.2	IIIA
Reverse Current (per leg) *	I	$@V_R = rated V_R$	2.6	20	mA
	I _{R2}	T _J = 125 °C	2.0	20	ША
Junction Capacitance	C _⊤	$@V_R = 5V, T_C = 25 °C$	670	_	pF
(per leg)	01	f _{SIG} = 1MHz	070		ρı
RSM Isolation Voltage		Clip mounting, the epoxy body			
(t = 1.0 second, R. H. < =30%,		away from the heatsink edge by	_	4500	
$T_A = 25 ^{\circ}C$		more than 0.110" along the lead			
	V_{ISO}	direction.			V
	100	Clip mounting, the epoxy body is	-	3500	
		inside the heatsink.			
		Screw mounting, the epoxy body is inside the heatsink.	-	1500	
		וווסועב נווב וובמנסווול.			

^{*} Pulse Width < 300µs, Duty Cycle <2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	T_J	-	-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	4.5	°C/W
Approximate Weight	wt	-	2	g
Case Style		ITO-220AB		

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