

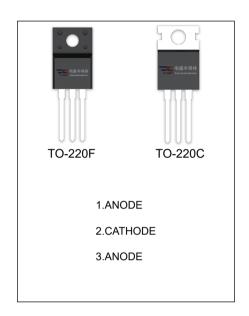
# SBD30130TCTB SBDF30130TCTB SCHOTTKY BARRIER RECTIFIER

### MAIN CHARACTERISTICS

Io	30 (2×15) A
$V_{RRM}$	130 V
T <sub>j</sub>	150 ℃
$V_{F(typ)}$	0.68V (@Tj=125℃)

### **FEATURES**

- Low Power Loss, High Efficiency
- Guard Ring Die Construction for Transient Protection
- High Current Capability and Low Forward Voltage Drop



# MAXIMUM RATINGS ( T<sub>a</sub>=25℃ unless otherwise noted )

Cymbal	Davameter	SBD		Unit
Symbol	Parameter		F30130TCTB	
V <sub>RRM</sub>	Peak repetitive reverse voltage			
V <sub>RWM</sub>	Working peak reverse voltage	130		V
$V_R$	DC blocking voltage			
V <sub>R(RMS)</sub>	RMS reverse voltage	91		V
lo	Average rectified output current	30		Α
I <sub>FSM</sub>	Non-Repetitive peak forward surge current (8.3ms half sine wave)	200		Α
R <sub>OJc</sub>	Thermal resistance from junction to case ,Tc=25℃	2.0	3.0	°C/W
R <sub>OJA</sub>	Thermal resistance from junction to ambient	62.5		°C/W
Tj	Junction temperature	150		$^{\circ}$
T <sub>stg</sub>	Storage temperature	-55~+150		$^{\circ}$

## ELECTRICAL CHARACTERISTICS (T<sub>a</sub>=25°C unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
Reverse voltage	V <sub>(BR)</sub>			I <sub>R</sub> =0.1m	130		
Reverse current	I <sub>R</sub>	V <sub>R</sub> =130V	Tj =25℃		10	100	uA
			Tj =125℃		10		mA
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =10A	Tj =25℃		0.70		V
			Tj =125℃		0.61		V
		I <sub>F</sub> =15A	Tj =25℃		0.84	0.89	V
			Tj =125℃		0.68		V

<sup>\*</sup>Pulse test: pulse width ≤300µs, duty cycle≤ 2.0%.



