

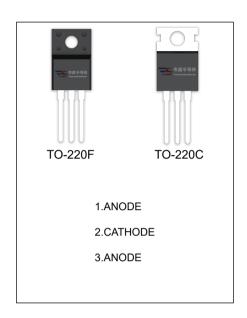
# SBD30200CT, SBDF30200CT SCHOTTKY BARRIER RECTIFIER

#### MAIN CHARACTERISTICS

Io	30 (2×15) A
$V_{RRM}$	200 V
T <sub>j</sub>	150 ℃
$V_{F(typ)}$	0.75V (@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 )

Cymphol	Parameter	SBD		l lmi4	
Symbol	Parameter		F30200CT	Unit	
V <sub>RRM</sub>	Peak repetitive reverse voltage	200		V	
$V_{RWM}$	Working peak reverse voltage				
V <sub>R</sub>	DC blocking voltage				
V <sub>R(RMS)</sub>	RMS reverse voltage	140		V	
Io	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>⊖Jc</sub>	Thermal resistance from junction to case ,Tc=25°C	2.0	3.0	°C/W	
R <sub>OJA</sub>	Thermal resistance from junction to ambient	62.5		°C/W	
T <sub>j</sub>	Junction temperature	150		℃	
T <sub>stg</sub>	Storage temperature	-55~+150		℃	

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

Parameter	Symbol	Test conditions I <sub>R</sub> =0.1mA		Min	Тур	Max	Unit
Reverse voltage	V <sub>(BR)</sub> I <sub>R</sub> =0.1mA			V <sub>(BR)</sub> I <sub>R</sub> =0	200		
Reverse current	I <sub>R</sub>	V <sub>R</sub> =200V	Tj =25℃		5.0	100	uA
			Tj =125℃		5.0		mA
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =10A	Tj =25℃		0.82		V
			Tj =125℃		0.71		V
		I <sub>F</sub> =15A	Tj =25℃		0.87	0.95	V
			Tj =125℃		0.76		V

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



