

# SBD10200CT、SBDF10200CT

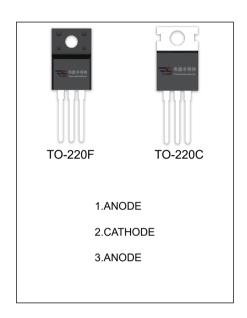
### SCHOTTKY BARRIER RECTIFIER

### MAIN CHARACTERISTICS

Io	10 (2×5) A
$V_{RRM}$	200 V
T <sub>j</sub>	150 ℃
$V_{F(typ)}$	0.72V (@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 loit	
Symbol	Parameter		F10200CT	Unit	
$V_{RRM}$	Peak repetitive reverse voltage				
$V_{RWM}$	Working peak reverse voltage		00	V	
$V_R$	DC blocking voltage				
V <sub>R(RMS)</sub>	RMS reverse voltage	140		V	
Io	Average rectified output current	10		А	
I <sub>FSM</sub>	Non-Repetitive peak forward surge current (8.3ms half sine wave)	120		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	
T <sub>j</sub>	Junction temperature	150		°C	
T <sub>stg</sub>	Storage temperature	-55~+150		°C	

## **ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)**

Parameter	Symbol	Test conditions		<b>Min</b> 200	Тур	Max	Unit V
Reverse voltage	V <sub>(BR)</sub>						
Reverse current	I <sub>R</sub>	V <sub>R</sub> =200V	Tj =25℃		1.0	100	uA
			Tj =125℃		1.0		mA
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =3A	Tj =25℃		0.80		V
			Tj =125℃		0.67		V
		I <sub>F</sub> =5A	Tj =25℃		0.84	0.92	V
			Tj =125℃		0.72		V

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



