

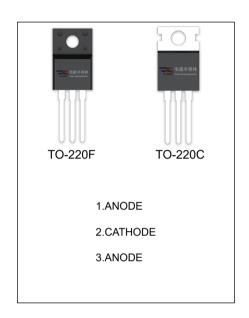
SBD20200CT、SBDF20200CT SCHOTTKY BARRIER RECTIFIER

MAIN CHARACTERISTICS

Io	20 (2×10) A		
V_{RRM}	200 V		
T _j	150 ℃		
$V_{F(typ)}$	0.76V (@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_a=25℃ unless otherwise noted)

Cymphol	Parameter	SBD		l loit	
Symbol	Parameter		F20200CT	Unit	
V _{RRM}	Peak repetitive reverse voltage	200			
V_{RWM}	Working peak reverse voltage			V	
V_R	DC blocking voltage				
V _{R(RMS)}	RMS reverse voltage	140		V	
Io	Average rectified output current	20		Α	
I _{FSM}	Non-Repetitive peak forward surge current (8.3ms half sine wave)	150		Α	
R _{OJc}	Thermal resistance from junction to case ,Tc=25℃	2.0	3.0	°C/W	
R _{OJA}	Thermal resistance from junction to ambient	62.5		°C/W	
T _j	Junction temperature	150		°C	
T _{stg}	Storage temperature	-55~+150		°C	

ELECTRICAL CHARACTERISTICS (T₂=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
Reverse voltage	V _(BR)			I _R =0	200		
Reverse current	I _R	V _R =200V	Tj =25℃		2.0	100	uA
			Tj =125℃		2.0		mA
Forward voltage	V _F	I _F =5A	Tj =25℃		0.8		V
			Tj =125℃		0.68		V
		I _F =10A	Tj =25℃		0.86	0.95	V
			Tj =125℃		0.76		V

^{*}Pulse test: pulse width ≤300µs, duty cycle≤ 2.0%.



