

SBD20H200CT、SBDF20H200CT

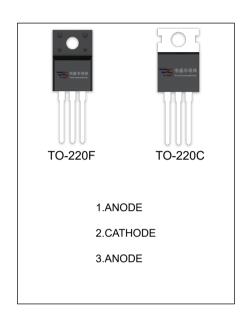
SCHOTTKY BARRIER RECTIFIER

MAIN CHARACTERISTICS

Io	20(10×2)A
V_{RRM}	200 V
T _j	175 ℃
$V_{F(typ)}$	0.72V (@Tj=150℃)

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)

Symbol	Parameter	SBD		I Imit	
Symbol	Parameter		F20H200CT	Unit	
V _{RRM}	Peak repetitive reverse voltage	200		٧	
V _{RWM}	Working peak reverse voltage				
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)	200		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	75		°C/W	
T _j	Junction temperature	175		$^{\circ}$ C	
T _{stg}	Storage temperature	-55~+175		°C	

ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions I _R =0.1mA		Min	Тур	Max	Unit
Reverse voltage	V _(BR)			nA 200			V
Reverse current	I _R	V _R =200V	Tj =25℃		0.5	1.0	uA
			Tj =150℃		0.5		mA
Forward voltage	V _F	I _F =5A	Tj =25℃		0.80		V
			Tj =150℃		0.64		V
		I _F =10A	Tj =25℃		0.86	0.95	V
			Tj =150℃		0.72		V

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



