

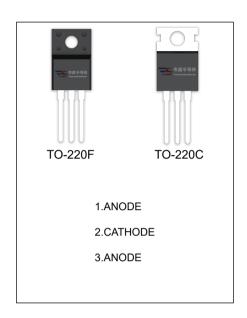
SBD20H100CT SBDF20H100CT SCHOTTKY BARRIER RECTIFIER

MAIN CHARACTERISTICS

Io	20(10×2)A
V_{RRM}	100 V
T _j	175 ℃
$V_{F(typ)}$	0.66V (@Tj=150°C)

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		I Init	
Symbol	Parameter		F20H100CT	Unit	
V_{RRM}	Peak repetitive reverse voltage				
V_{RWM}	Working peak reverse voltage 100		00	V	
V_R	DC blocking voltage				
V _{R(RMS)}	RMS reverse voltage	70		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		°C	
T _{stg}	Storage temperature	-55~+175		°C	

ELECTRICAL CHARACTERISTICS (T₂=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions		Min	71	Max	Unit V
Reverse voltage	V _(BR)			100			
Reverse current	I _R	V _R =100V	Tj =25℃		200	500	nA
			Tj =150℃		0.5		mA
Forward voltage	V _F	I _F =5A	Tj =25℃		0.75		V
			Tj =150℃		0.58		V
		I _F =10A	Tj =25℃		0.80	0.85	V
			Tj =150℃		0.66		V

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



