

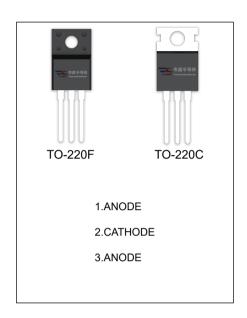
SBD20100TCTB SBDF20100TCTB SCHOTTKY BARRIER RECTIFIER

MAIN CHARACTERISTICS

Io	20 (2×10) A			
V _{RRM}	100 V			
T _j	150 ℃			
$V_{F(typ)}$	0.62V (@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)

Cumbal	Parameter	SBD		Unit	
Symbol	Parameter	20100TCTB	F20100TCTB	Unit	
V _{RRM}	Peak repetitive reverse voltage				
V _{RWM}	Working peak reverse voltage	100		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)	150		Α	
R _{⊝Jc}	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	
Tj	Junction temperature	150		$^{\circ}$	
T _{stg}	Storage temperature	-55~+150		℃	

ELECTRICAL CHARACTERISTICS (T₂=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions I _R =1mA		Min 100	Тур	Max	Unit V
Reverse voltage	V _(BR)						
Reverse current	I _R	V _R =100V	Tj =25℃		5.0	100	uA
			Tj =125℃		5.0		mA
Forward voltage	V _F	I _F =5A	Tj =25℃		0.54		V
			Tj =125℃		0.50		V
		I _F =10A	Tj =25℃		0.66	0.75	V
			Tj =125℃		0.62		V

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



