

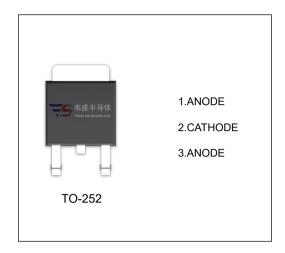
SBDD20200CT SCHOTTKY BARRIER RECTIFIER

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)

Symbol	Parameter	Value	Unit
V_{RRM}	Peak repetitive reverse voltage		
V_{RWM}	Working peak reverse voltage	200	V
V_{R}	DC blocking voltage		
V _{R(RMS)}	RMS reverse voltage	140	V
lo	Average rectified output current	20	А
I _{FSM}	Non-Repetitive peak forward surge current (8.3ms half sine wave)	150	А
R _{OJC}	Thermal resistance from junction to case	5.0	°C/W
Roja	Thermal resistance from junction to ambient	100	°C/W
Tj	Junction temperature	150	°C
T _{stg}	Storage temperature	-55~+150	°C

ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
Reverse voltage	V _(BR)	I _R =0.1mA		200			V
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%.



