

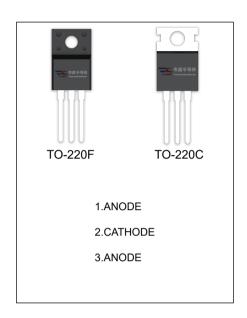
SBD10100TCTB SBDF10100TCTB SCHOTTKY BARRIER RECTIFIER

MAIN CHARACTERISTICS

Io	10 (2×5) A
V_{RRM}	100 V
T _j	150 ℃
$V_{F(typ)}$	0.63V (@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)

Cymphal	Parameter	SE	Unit		
Symbol	Parameter		F10100TCTB	Unit	
V_{RRM}	Peak repetitive reverse voltage	100		V	
V_{RWM}	Working peak reverse voltage				
V_R	DC blocking voltage				
V _{R(RMS)}	RMS reverse voltage	70		V	
lo	Average rectified output current	10		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		°C	
T _{stg}	Storage temperature	-55~+150		℃	

ELECTRICAL CHARACTERISTICS (T₂=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions I _R =0.1mA		Min	Тур	Max	Unit V
Reverse voltage	V _(BR)			100			
Reverse current	I _R	V _R =100V	Tj =25℃		5.0	100	uA
	ik ik		Tj =125℃		5.0		mA
Forward voltage		I _F =3A	Tj =25℃		0.58		V
	V _F		Tj =125℃		0.55		V
		I _F =5A	Tj =25℃		0.69	0.73	V
			Tj =125℃		0.63		V

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



