

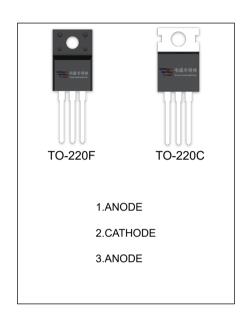
SBD40100TCTB SBDF40100TCTB SCHOTTKY BARRIER RECTIFIER

MAIN CHARACTERISTICS

Io	40 (2×20) A
V_{RRM}	100 V
T _j	150 ℃
$V_{F(typ)}$	0.64V (@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	SBD		Unit	
Symbol	Parameter	40100TCTB	F40100TCTB	Unit	
V_{RRM}	Peak repetitive reverse voltage	100			
V_{RWM}	Working peak reverse voltage			V	
V_R	DC blocking voltage				
V _{R(RMS)}	RMS reverse voltage	70		V	
lo	Average rectified output current	40		Α	
I _{FSM}	Non-Repetitive peak forward surge current (8.3ms half sine wave)	250		Α	
R _{⊝Jc}	Thermal resistance from junction to case ,Tc=25℃	2.0	3.0	°C/W	
R _{⊙JA}	Thermal resistance from junction to ambient	62.5		°C/W	
Tj	Junction temperature	150		℃	
T _{stg}	Storage temperature	-55~+150		℃	

ELECTRICAL CHARACTERISTICS (T₂=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions IR=0.1mA		Min	Тур	Max	Unit V
Reverse voltage	V _(BR)			100			
Reverse current	I _R	V _R =100V	Tj =25℃		30	100	uA
			Tj =125℃		20		mA
Forward voltage	V _F	I _F =10A	Tj =25℃		0.53		V
			Tj =125℃		0.50		V
		I _F =20A	Tj =25℃		0.67	0.72	V
			Tj =125℃		0.64		V

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



