

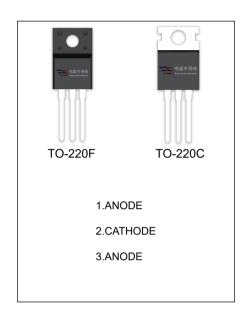
SBD40150TCTB SBDF40150TCTB SCHOTTKY BARRIER RECTIFIER

MAIN CHARACTERISTICS

Io	40 (2×20) A
V_{RRM}	150 V
T _j	150 ℃
$V_{F(typ)}$	0.69V (@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)

Cymbal	Dovomotov	SBD		Unit
Symbol	Parameter		F40150TCTB	
V _{RRM}	Peak repetitive reverse voltage	150		
V _{RWM}	Working peak reverse voltage			V
V_R	DC blocking voltage			
V _{R(RMS)}	RMS reverse voltage	105		V
lo	Average rectified output current	30		Α
I _{FSM}	Non-Repetitive peak forward surge current (8.3ms half sine wave)	250		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	62.5		°C/W
Tj	Junction temperature	150		$^{\circ}$
T _{stg}	Storage temperature	-55~+150		$^{\circ}$

ELECTRICAL CHARACTERISTICS (T₂=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
Reverse voltage	V _(BR)	R) IR=	:0.1mA	150			V
Reverse current	I _R	V _R =150V	Tj =25℃		5	100	uA
			Tj =125℃		5		mA
Forward voltage	V _F	I _F =10A	Tj =25℃		0.73		V
			Tj =125℃		0.58		V
		I _F =20A	Tj =25℃		1.01	1.1	V
			Tj =125℃		0.69		V

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



