

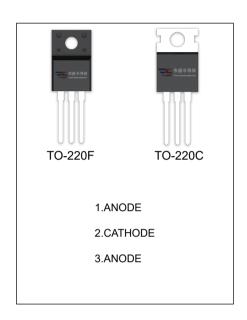
SBD20150TCTB、SBDF20150TCTB SCHOTTKY BARRIER RECTIFIER

MAIN CHARACTERISTICS

Io	20 (2×10) A		
V_{RRM}	150 V		
T _j	150 ℃		
$V_{F(typ)}$	0.68V (@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°C unless otherwise noted)

Cumbal	Dovometer	SBD		I I mit	
Symbol	Symbol Parameter		F20150CT	Unit	
V_{RRM}	Peak repetitive reverse voltage				
V_{RWM}	Working peak reverse voltage 150		50	V	
V _R	DC blocking voltage				
V _{R(RMS)}	RMS reverse voltage	105		V	
lo	Average rectified output current	20		Α	
I _{FSM}	Non-Repetitive peak forward surge current (8.3ms half sine wave)	150		Α	
R _{ΘJc}	Thermal resistance from junction to case ,Tc=25℃		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 (T_a=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
Reverse voltage	V _(BR)	I _R =100uA		150			V
Reverse current	I _R	V _R =150V	Tj =25℃		5.0	100	uA
			Tj =125℃		5.0		mA
Forward voltage	V _F	I _F =5A	Tj =25℃		0.75		V
			Tj =125℃		0.58		V
		I _F =10A	Tj =25℃		1.06	1.1	V
			Tj =125℃		0.68		V

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





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