

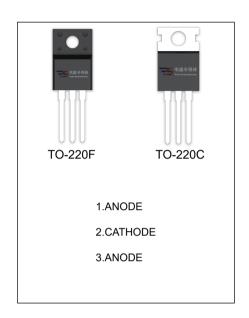
SBD20150LCTB、SBDF20150LCTB SCHOTTKY BARRIER RECTIFIER

MAIN CHARACTERISTICS

Io	20 (2×10) A		
V_{RRM}	150 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)

Cymbol	Parameter	SE	Unit		
Symbol	Symbol		F20150LCTB	Unit	
V_{RRM}	Peak repetitive reverse voltage				
V _{RWM}	Working peak reverse voltage	150		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℃	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 (T_a=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
Reverse voltage	V _(BR)	I _R =1mA		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℃		0.72		٧
			Tj =125℃		0.57		V
		I _F =10A	Tj =25℃		0.78	0.85	V
			Tj =125℃		0.64		V

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







