

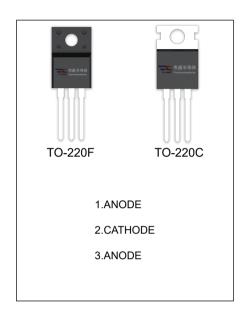
SBD30150CT SBDF30150CT SCHOTTKY BARRIER RECTIFIER

MAIN CHARACTERISTICS

Io	30 (2×15) A
V_{RRM}	150 V
T _j	150 ℃
$V_{F(typ)}$	0.74V (@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)

Symbol	Parameter	SBD		Unit	
Symbol	Symbol		F30150CT	Unit	
V _{RRM}	Peak repetitive reverse voltage	150		٧	
V_{RWM}	Working peak reverse voltage				
V _R	DC blocking voltage				
V _{R(RMS)}	RMS reverse voltage	105		V	
Io	Average rectified output current	30		Α	
I _{FSM}	Non-Repetitive peak forward surge current (8.3ms half sine wave)	200		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	
T _j	Junction temperature	150		°C	
T _{stg}	Storage temperature	-55~+150		°C	

ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
Reverse voltage	V _(BR)			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 =10A	Tj =25℃		0.80		V
			Tj =125℃		0.68		V
		I _F =15A	Tj =25℃		0.84	0.95	V
			Tj =125℃		0.74		V

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



