

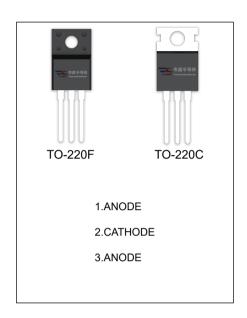
SBD3045LCTB SBDF3045LCTB SCHOTTKY BARRIER RECTIFIER

MAIN CHARACTERISTICS

Io	30 (2×15) A
V_{RRM}	45 V
T _j	150 ℃
$V_{F(typ)}$	0.49V (@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)

Cymphol	Parameter		SBD	
Symbol			F3045LCTB	Unit
V_{RRM}	Peak repetitive reverse voltage			
V_{RWM}	Working peak reverse voltage		45	
V_R	DC blocking voltage			
V _{R(RMS)}	RMS reverse voltage	31.5		V
lo	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
Tj	Junction temperature	150		°C
T _{stg}	Storage temperature	-55~+150		$^{\circ}$

ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions I _R =1mA		Min 45	Тур	Max	Unit V
Reverse voltage	V _(BR)						
Reverse current	I _R	V _R =45V	Tj =25℃		100	500	uA
			Tj =125℃		25		mA
Forward voltage	V _F	I _F =10A	Tj =25℃		0.47		V
			Tj =125℃		0.40		V
		I _F =15A	Tj =25℃		0.52	0.65	V
			Tj =125℃		0.49		V

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



