

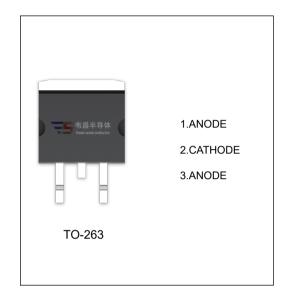
SBDB30100CT SCHOTTKY BARRIER RECTIFIER

MAIN CHARACTERISTICS

I ₀	30 (2×15) A				
V_{RRM}	100 V				
T _j	150 ℃				
V _{F(typ)}	0.70V (@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)

Symbol	Parameter	Value	Unit
V _{RRM}	Peak repetitive reverse voltage		
V_{RWM}	Working peak reverse voltage	100	V
V_R	DC blocking voltage		
V _{R(RMS)}	RMS reverse voltage	70	V
lo	Average rectified output current	30	А
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	°C/W
R _{OJA}	Thermal resistance from junction to ambient	62.5	°C/W
T _j	Junction temperature	150	$^{\circ}$
T _{stg}	Storage temperature	-55~+150	℃

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test co	nditions	Min	Тур	Max	Unit
Reverse voltage	$V_{(BR)}$	I _R =0.1mA		100			V
Reverse current	I _R	V _R =100V	Tj =25℃		5.0	100	uA
			Tj =125℃		5.0		mA
Forward voltage	V _F	I _F =10A	Tj =25℃		0.77		V
			Tj =125℃		0.64		V
		I _F =15A	Tj =25℃		0.82	0.85	V
			Tj =125℃		0.70		V

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



