

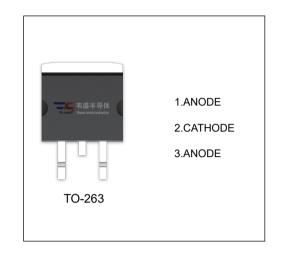
SBDB10100CT SCHOTTKY BARRIER RECTIFIER

MAIN CHARACTERISTICS

Io	10 (2×5) A		
V _{RRM}	100 V		
T _j	150 ℃		
V _{F(typ)}	0.62V (@Ta=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	Value	Unit	
V_{RRM}	Peak repetitive reverse voltage			
V _{RWM}	V _{RWM} Working peak reverse voltage			
V _R	DC blocking voltage			
V _{R(RMS)}	RMS reverse voltage	70	V	
Io	Average rectified output current	10	Α	
I _{FSM}	Non-Repetitive peak forward surge current (8.3ms half sine wave)	120	Α	
R _{OJC}	Thermal resistance from junction to case ,Tc=25℃	2.0	°C/W	
R _{⊕JA}	Thermal resistance from junction to ambient	62.5	°C/W	
T _j	Junction temperature	150	°C	
T _{stg}	Storage temperature	-55~+150	℃	

ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions I _R =0.1mA		Min 100	Тур	Max	Unit V
Reverse voltage	V _(BR)						
Reverse current	I _R	V _R =100V	Tj =25℃		2.0	100	uA
			Tj =125℃		2.0		mA
Forward voltage	V _F	I _F =3A	Tj =25℃		0.71		V
			Tj =125℃		0.57		V
		I _F =5A	Tj =25℃		0.77	0.85	V
			Tj =125℃		0.63		V

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



