

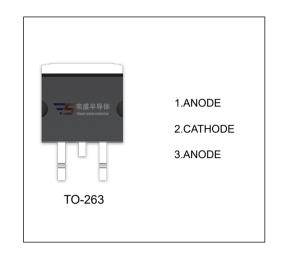
SBDB10150CT SCHOTTKY BARRIER RECTIFIER

MAIN CHARACTERISTICS

Io	10 (2×5) A		
V _{RRM}	150 V		
T _j	150 ℃		
V _{F(typ)}	0.69V (@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}	Working peak reverse voltage	150	V
V _R	DC blocking voltage		
V _{R(RMS)}	RMS reverse voltage	105	V
Io	Average rectified output current	10	А
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		Min	Тур	Max	Unit
Reverse voltage	V _(BR)			150			V
Reverse current	I _R	V _R =150V	Tj =25℃		1.0	100	uA
			Tj =125℃		1.0		mA
	V _F I _F =3A T _j =25 ℃ T _j =125 ℃ T _j =25 ℃	Ι-=3Δ	Tj =25℃		0.78		V
Forward voltage		0.64		V			
1 orward voltage		I _F =5A	Tj =25℃		0.80	0.87	V
			Tj =125℃		0.69		V

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



