

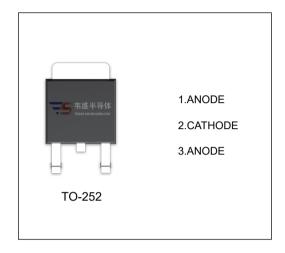
# **SBDD20150CT** SCHOTTKY BARRIER RECTIFIER

#### MAIN CHARACTERISTICS

Io	20 (2×10) A				
V <sub>RRM</sub>	150 V				
T <sub>j</sub>	150 ℃				
V <sub>F(typ)</sub>	0.71V (@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<sub>a</sub>=25℃ unless otherwise noted )

Symbol	Parameter	Value	Unit
$V_{RRM}$	Peak repetitive reverse voltage		V
$V_{RWM}$	Working peak reverse voltage	150	
$V_{R}$	DC blocking voltage		
V <sub>R(RMS)</sub>	RMS reverse voltage	105	V
lo	Average rectified output current	20	А
I <sub>FSM</sub>	Non-Repetitive peak forward surge current (8.3ms half sine wave)	150	А
R <sub>OJC</sub>	Thermal resistance from junction to case	5.0	°C/W
R <sub>OJA</sub>	Thermal resistance from junction to ambient	100	°C/W
Tj	Junction temperature	150	°C
T <sub>stg</sub>	Storage temperature	-55~+150	℃

## **ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)**

Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
Reverse voltage	$V_{(BR)}$	I <sub>R</sub> =0.1mA		150			V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =150V	Tj =25℃		2.0	100	uA
			Tj =125℃		2.0		mA
	V <sub>F</sub>	I <sub>F</sub> =5A	Tj =25℃		0.76		٧
Forward voltage			Tj =125℃		0.64		V
1 of ward voltage		I <sub>F</sub> =10A	Tj =25℃		0.83	0.9	V
			Tj =125℃		0.71		V

<sup>\*</sup>Pulse test: pulse width ≤300µs, duty cycle≤ 2.0%.



