

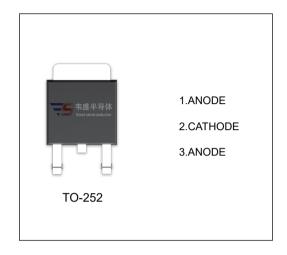
SBDD1045CT SCHOTTKY BARRIER RECTIFIER

MAIN CHARACTERISTICS

Io	10 (2×5) A
V _{RRM}	45 V
T _j	150 ℃
$V_{F(typ)}$	0.48V (@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_c=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{RRM}	Peak repetitive reverse voltage		
V _{RWM}	Working peak reverse voltage	45	V
V _R	DC blocking voltage		
V _{R(RMS)}	RMS reverse voltage	31.5	V
Io	Average rectified output current	10	Α
I _{FSM}	Non-Repetitive peak forward surge current (8.3ms half sine wave)	120	Α
Rojc	Thermal resistance from junction to case	5.0	°C/W
R _{OJA}	Thermal resistance from junction to ambient	100	°C/W
Tj	Junction temperature	150	°C
T _{stg}	Storage temperature	-55~+150	°C

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

Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
Reverse voltage	$V_{(BR)}$			45	5		V
Reverse current	I _R	V _R =45V	Tj =25℃		20	100	uA
			Tj =125℃		20		mA
Forward voltage	V _F	I _F =3A	Tj =25℃		0.46		V
			Tj =125℃		0.40		V
		I _F =5A	Tj =25℃		0.52	0.60	V
			Tj =125℃		0.48		V

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



