

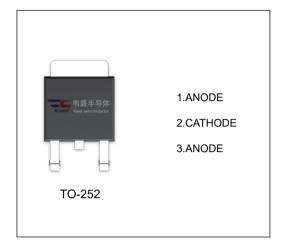
SBDD1060CT SCHOTTKY BARRIER RECTIFIER

MAIN CHARACTERISTICS

Io	10 (2×5) A
V_{RRM}	60 V
T _j	150 ℃
V _{F(typ)}	0.56V (@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_c =25 $^{\circ}$ C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{RRM}	Peak repetitive reverse voltage		
V _{RWM}	Working peak reverse voltage	60	V
V _R	DC blocking voltage		
V _{R(RMS)}	RMS reverse voltage	42	V
Io	Average rectified output current	10	А
I _{FSM}	Non-Repetitive peak forward surge current (8.3ms half sine wave)	120	А
R _{OJC}	Thermal resistance from junction to case	5.0	°C/W
R _{OJA}	Thermal resistance from junction to ambient	100	°C/W
T _j	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	$V_{(BR)}$	I _R =0.1mA		60			V
Reverse current	I _R	V _R =60V	Tj =25℃		10	100	uA
			Tj =125℃		10		mA
Forward voltage	V _F	I _F =3A	Tj =25℃		0.57		V
			Tj =125℃		0.50		V
		I _F =5A	Tj =25℃		0.67	0.70	V
			Tj =125℃		0.56		V

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



