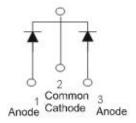


Schottky Barrier Rectifier

SBR30A45

FEATURES

- Dual Rectifier Conduction, Positive Center Tap
- Low Power Loss/High Efficiency
- High Current Capability, Low Forward Voltage Drop
- · High Surge Capacity
- · Guarding for Overvoltage protection
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RMS} V _R	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	45	V
I _{F(AV)}	Average Rectified Forward Current (Per Leg) (Total)	15 30	A
I _{FSM}	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	250	А
I _{RRM}	Peak Repetitive Reverse Surge Current (2µS - 1Khz)	3	А
TJ	Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case		°C/W

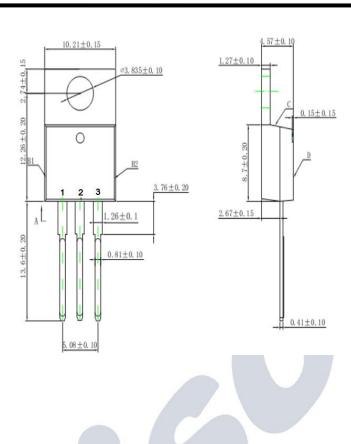
ELECTRICAL CHARACTERISTICS(Pulse Test: Pulse Width≤300 µ s,Duty Cycle≤1%)

SYMBOL	PARAMETER		CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Voltage	Forward	I _F = 15A ; T _C = 25℃ I _F = 15A ; T _C = 125℃	0.50 0.45	V
I _R	Maximum Instantaneous I Current	Reverse	Rated DC Voltage, T_C = 25°C Rated DC Voltage, T_C = 125°C	0.5 100	mA



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