

INCHANGE SEMICONDUCTOR

Schottky Barrier Rectifier

SBR3045CT

FEATURES

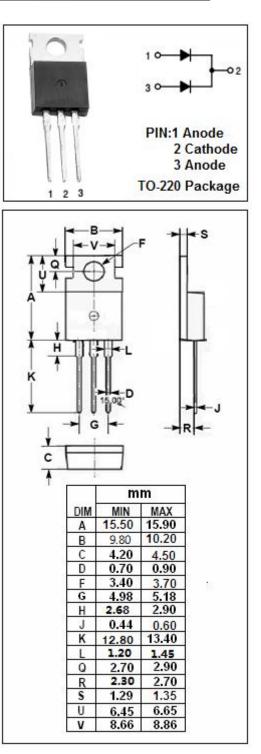
- With TO-220 packaging
- · High junction temperature capability
- Low forward voltage drop
- High current capability
- · Low power loss, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching power supply
- · Free-Wheeling diodes
- Reverse battery protection
- Center tap configuration

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNI T
Vrrm Vrwm Vr	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	45	V
I _{F(AV)}	Average Rectified Forward Current@Tc=130°C	30	A
IFSM	Nonrepetitive Peak Surge Current (8.3ms single half sine-wave superimposed on rated load conditions) tp=5 μ s sine	200	A
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-65~150	°C



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THERMAL CHARACTERISTICS

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

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

SYMBOL	PARAMETER	CONDITIONS	МАХ	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 15A ; Tc= 25℃	0.55	- V
		I⊧= 15A ; Tc= 25 ℃	0.5	
IR	Maximum Instantaneous Reverse Current	V _R = V _{RWM;} Tc= 25°C	0.5	mA
		V _R = V _{RWM;} Tc= 100°С	100	

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