

Schottky Barrier Rectifier

INCHANGE SEMICONDUCTOR

SRF2045CT

FEATURES

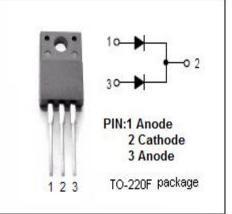
- With TO-220F packaging
- · High junction temperature capability
- Low forward voltage
- High current capability
- · Low power loss, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

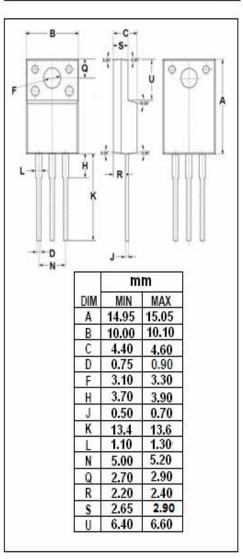
APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNI T
V _{RRM} V _{RMS} V _R	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	45	V
lf(AV)	Average Rectified Forward Current @Tc=110℃	10	А
I _{F(RMS)}	RMS Forward Current	20	A
IFSM	Nonrepetitive Peak Surge Current (10ms single half sine-wave superimposed on rated load conditions)	200	A
TJ	Junction Temperature	-65~150	°C
T _{stg}	Storage Temperature Range	-65~150	°C





isc website: <u>www.iscsemi.com</u>



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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.0	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	МАХ	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F = 20A	0.6	V
I _R	Maximum Instantaneous Reverse Current	V _R = rated V _{RRM} ; Tj= 25 [°] C V _R = rated V _{RRM} ; Tj= 125 [°] C	0.2 30	mA

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