

Schottky Barrier Rectifier

SRF10150CT

FEATURES

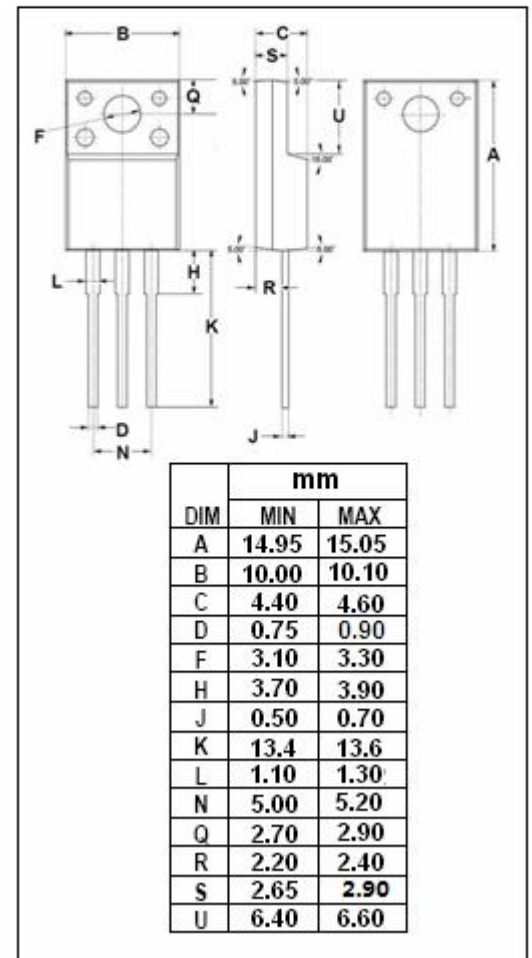
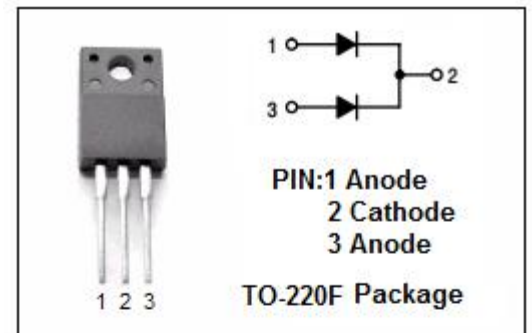
- Plastic material used carriers Underwriter Laboratory
- Guard ring for transient protection
- Low power loss,high efficiency
- High current capability,low VF
- High surge capacity
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- For use in low voltage,high frequency inverters,free wheeling and polarity protection applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
VRRM	Peak Repetitive Reverse Voltage	150	V
VRWM	Working Peak Reverse Voltage	105	
VR	DC Blocking Voltage tw=500ns;duty=1/40	150	
IF(AV)	Average Rectified Forward Current @Tc=95°C	10	A
IFSM	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	125	A
TJ	Junction Temperature	-55~125	°C
Tstg	Storage Temperature Range	-55~150	°C



Schottky Barrier Rectifier**SRF10150CT****THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	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 \leq 1%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F=5A$; $T_c= 25^{\circ}C$	0.95	V
I_R	Maximum Instantaneous Reverse Current	$V_R= 150V; T_c= 25^{\circ}C$ $V_R=150V; T_c= 100^{\circ}C$	1.0 50	mA

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