

Schottky Barrier Rectifier

SRF1050CT

FEATURES

- Plastic material used carriers Underwriter Laboratory
- Metal silicon junction, majority carrier conduction
- Low Power Loss,high Efficiency
- Guard ring for overvoltage protection
- High Surge Capability,High Current Capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

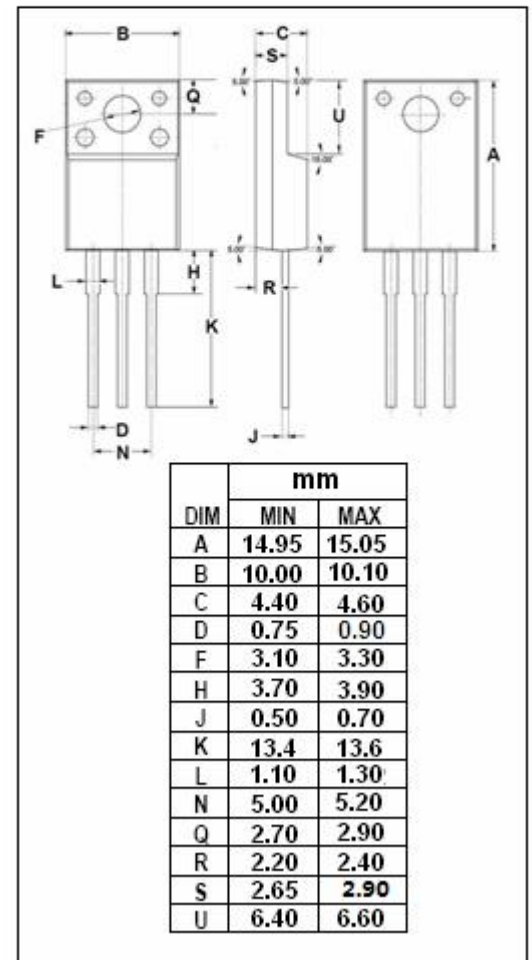
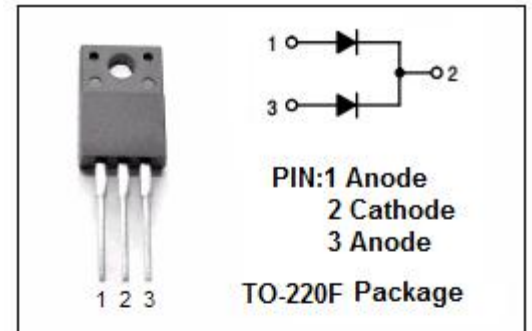


APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM}	Peak Repetitive Reverse Voltage	50	V
V _{RWM}	Working Peak Reverse Voltage	35	
V _R	DC Blocking Voltage	50	
I _{F(AV)}	Average Rectified Forward Current	10	A
I _{FSM}	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	125	A
T _J	Junction Temperature	-55~125	°C
T _{stg}	Storage Temperature Range	-55~150	°C



Schottky Barrier Rectifier**SRF1050CT****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	$I_F = 5A$; $T_c = 25^\circ C$	0.7	V
I_R	Maximum Instantaneous Reverse Current	$V_R = V_{RWM}$; $T_c = 25^\circ C$	1.0	mA
		$V_R = V_{RWM}$; $T_c = 100^\circ C$	50	

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