

Schottky Barrier Rectifier

STPS30L60CT

FEATURES

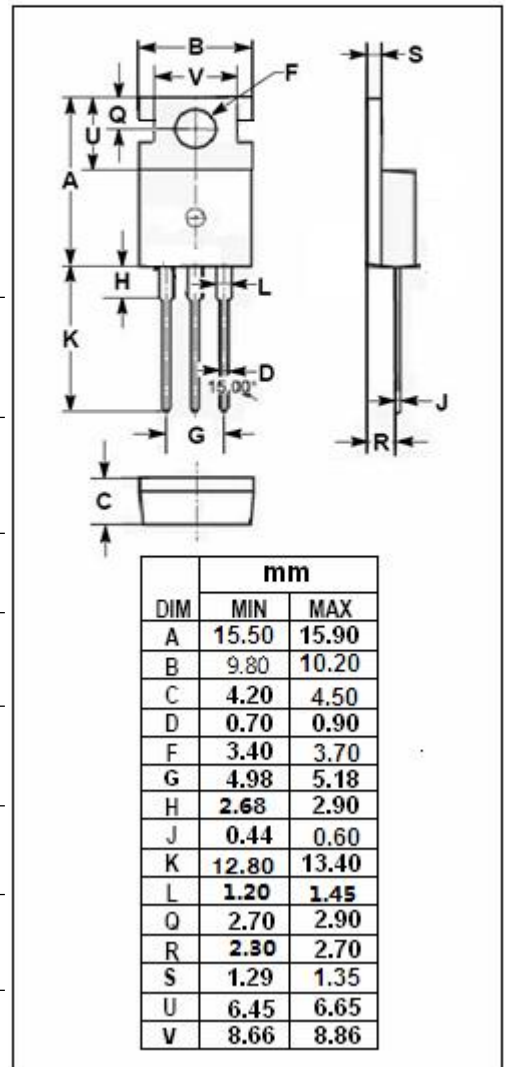
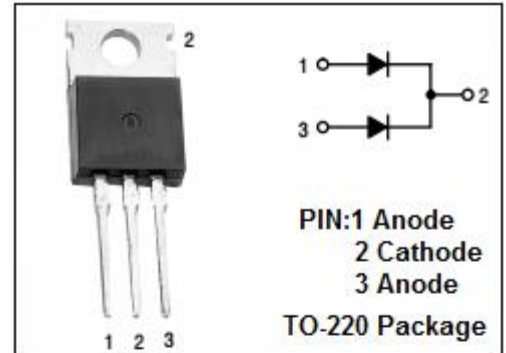
- Schottky Barrier Chip
- Dual Rectifier Conduction, Positive Center Tap
- Low Power Loss/High Efficiency
- High Current Capability, Low Forward Voltage Drop
- High Surge Capacity
- Guarding for Overvoltage protection
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for low-voltage,high frequency inverters, free wheeling and polarity protection applications .

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	60	V
V _{R(RMS)}	RMS Reverse Voltage	30	V
I _{F(AV)}	Average Rectified Forward Current (Rated V _R) T _C = 130°C	30	A
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	230	A
I _{RRM}	Peak Repetitive Reverse Surge Current	2.0	A
T _J	Junction Temperature	-65~150	°C
T _{stg}	Storage Temperature Range	-65~175	°C



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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	1.0	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F = 15A$; $T_C = 25^\circ C$	0.6	V
		$I_F = 15A$; $T_C = 125^\circ C$	0.56	
		$I_F = 30A$; $T_C = 25^\circ C$	0.7	
		$I_F = 30A$; $T_C = 125^\circ C$	0.75	
I_R	Maximum Instantaneous Reverse Current	Rated DC Voltage, $T_C = 25^\circ C$	0.048	mA
		Rated DC Voltage, $T_C = 125^\circ C$	130	

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