

Schottky Barrier Rectifier

TST20L60CW

FEATURES

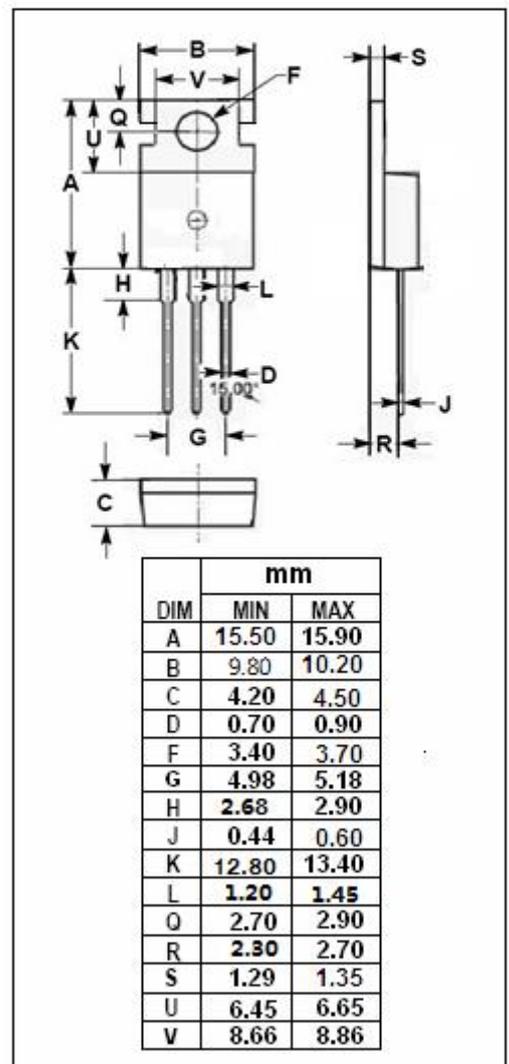
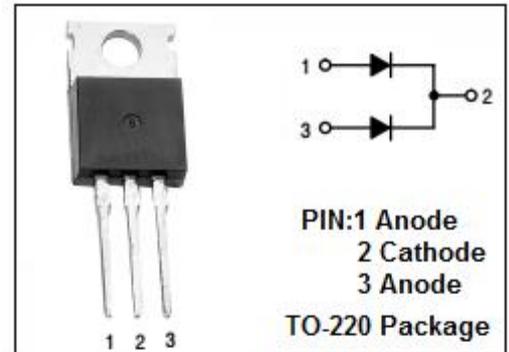
- With TO-220 packaging
- High Junction Temperature Capability
- Low forward voltage drop
- High current capability
- Low power loss, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	60	V
I _{F(AV)}	Average Rectified Forward Current	20	A
I _{FSM}	Nonrepetitive Peak Surge Current (8.3ms single half sine-wave superimposed on rated load conditions)	120	A
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	3.0	$^{\circ}C/W$

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F = 10A ; T_c = 25^{\circ}C$	0.65	V
		$I_F = 10A ; T_c = 125^{\circ}C$	0.61	
		$I_F = 20A ; T_c = 25^{\circ}C$	0.78	
		$I_F = 20A ; T_c = 125^{\circ}C$	0.76	
I_R	Maximum Instantaneous Reverse Current	$V_R = V_{RWM}, T_c = 25^{\circ}C$	0.5	mA
		$V_R = V_{RWM}, T_c = 125^{\circ}C$	50	

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