



STTH16R04CT

FEATURES

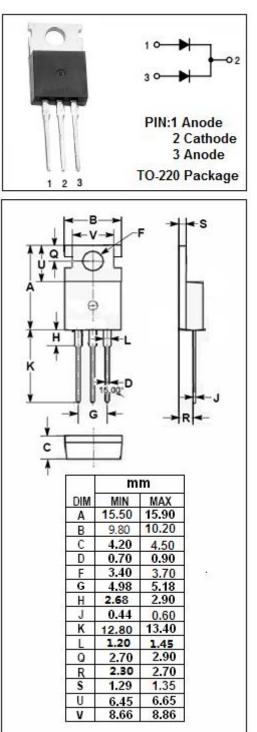
- Ultrafast with soft recovery
- 175℃ Operating temperature
- Popular TO-220 package
- Avalanche energy rated
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching power supply
- Power switching circuits
- General purpose

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} VR	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	400	V
IF(AV)	Average Rectified Forward Current Per Leg Total device	8 16	А
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	120	A
P _D	Maximum power dissipation	75	W
TJ	Junction Temperature	-65~175	°C
T _{stg}	Storage Temperature Range	-65~175	°C





Fast Recovery Rectifier

INCHANGE SEMICONDUCTOR

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THERMAL CHARACTERISTICS

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

ELECTRICAL CHARACTERISTICS(Ta=25°C) (Pulse Test: Pulse Width=300 µ s, Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	МАХ	UNIT
VF*	Maximum Instantaneous Forward Voltage	IF= 8A ;Tj=25 ℃ IF= 8A ;Tj=150 ℃	1.5 1.1	V
		IF= 16A ;Tj=25℃ IF= 16A ;Tj=150℃	1.75 1.37	
I _{R*}	Maximum Instantaneous Reverse Current	V _R = V _{RWM;} Tj=150°C V _R = V _{RWM}	100 10	μA
trr	Maximum Reverse Recovery Time	IF =1A;di/dt = 50A/µs	50	ns

*:Pulse test ,Pulse width=300us,duty cycle≤2%

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