

Ultrafast Rectifier

STTH1602CG

FEATURES

- Low forward and reverse recovery times
- · Low leakage current
- High junction temperature
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

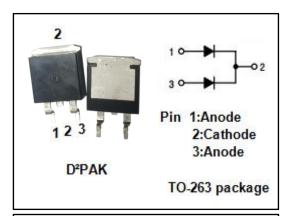


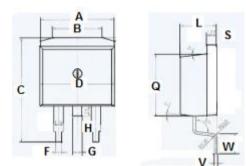
APPLICATIONS

 The STTH1602CG is designed for use in switching power Supplies,inverters and as free wheeling diodes.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
VRRM VRWM VR	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	200	V
I _{F(AV)}	Average Rectified Forward Current (Per Leg) (Total)	8 16	А
Ігѕм	Nonrepetitive Peak Surge Current	80	A
Тл	Junction Temperature	-65~175	${\mathbb C}$
T _{stg}	Storage Temperature Range	-65~175	$^{\circ}$





DIM	m	ım
DIIVI	MIN	MAX
Α	9.8	10.2
В	6.6	6.8
С	15.1	15.3
D	9.6	10
F	0.7	0.9
G	1.26	1.3
Н	1.2	1.45
L	4.4	4.6
Q	9.2	9.3
S	1.25	1.35
V	0.4	0.6
W	2.6	2.8

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Fast Recovery Rectifier

STTH1602CG

THERMAL CHARACTERISTICS

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

ELECTRICAL CHARACTERISTICS(T_a=25℃) (Pulse Test: Pulse Width=300 μ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F =8A ;Tj=25℃	1.1	V
		I _F = 8A ;Tj=150°C	1.25	
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM} ; Tj=25°C	60	μ А
		V _R = V _{RWM} ; Tj=150°C	60	
t _{rr}	Maximum Reverse Recovery Time	I _F =1A;di/dt = 50A/μs	26	ns

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