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STTH2002CG

D²PAK

TO-263 Package

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FEATURES

- Super fast switching for high efficiency.
- · Low reverse leakage.
- High forward surge current capability.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching power supply
- · Power switching circuits

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 device	10 20	А
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	90	A
PD	Maximum power dissipation	75	W
TJ	Junction Temperature	-55~175	°C
T _{stg}	Storage Temperature Range	-55~175	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.0	°C/W

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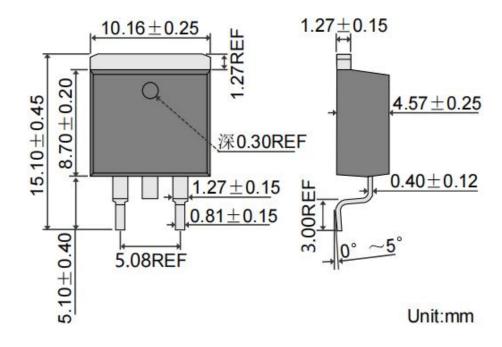


Fast Recovery Rectifier

STTH2002CG

ELECTRICAL CHARACTERISTICS(Ta=25°C) (Pulse Test	t: Pulse Width=300 µ s,Duty Cycle≤2%)
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SYMBOL	PARAMETER	CONDITIONS	МАХ	UNIT
VF	Maximum Instantaneous Forward Voltage	IF=10A;Tj=25°C IF= 10A;Tj=125°C	1.1 0.95	V
IR	Maximum Instantaneous Reverse Current	V _R = V _{RWM;} V _R = V _{RWM;} Tj=125°C	10 100	μA
t _{rr}	Maximum Reverse Recovery Time	I _F =0.5A I _R =1.0A I _{REC} =0.25A	25	ns



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