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STTH2003CG

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	300	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)	110	A
PD	Maximum power dissipation	62.5	W
TJ	Junction Temperature	-40~150	°C
T _{stg}	Storage Temperature Range	-40~150	°C

THERMAL CHARACTERISTICS

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

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1

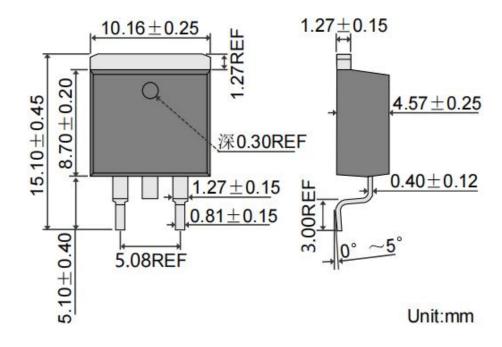


Fast Recovery Rectifier

STTH2003CG

ELECTRICAL CHARACTERISTICS(Ta=25°C) (Pulse	e Test: Pulse Width=300
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SYMBOL	PARAMETER	CONDITIONS	МАХ	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F =10A ;Tj= 25℃ I _F = 10A ;Tj= 125℃	1.25 1.0	V
I _R	Maximum Instantaneous Reverse Current	$V_{R}=V_{RWM;}$ $V_{R}=V_{RWM;}$ Tj=125 °C	20 300	μA
t _{rr}	Maximum Reverse Recovery Time	I _F =0.5A I _R =1.0A I _{REC} =0.25A	35	ns



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