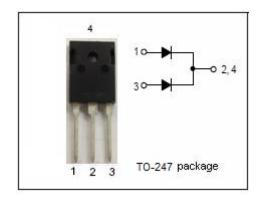


Schottky Barrier Rectifier

FST3050

FEATURES

- · With TO-247 packaging
- · Low leakage current
- Low power loss
- · High efficiency
- · High surge capacity
- Guarding for overvoltage protection
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

• Designed for designed for low-voltage, high frequency inverters, free wheeling and polarrity protection applications .

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	50	V
I _{F(AV)}	Average Rectified Forward Current Per Leg @Tc=157℃	30	А
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions halfwave, single phase, 60Hz) @Tj=175°C	350	А
Тл	Junction Temperature	175	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-55~175	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	0.9	°C/W

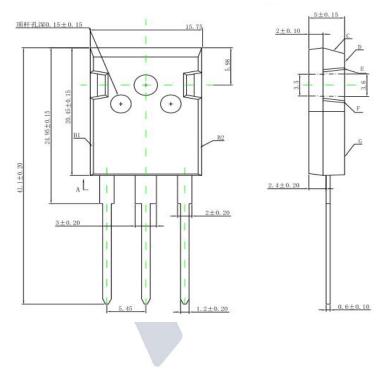


Schottky Barrier Rectifier

FST3050

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 15A;T _J =25℃ I _F = 15A;T _J =125℃	0.66 0.50	V
I _R	Maximum Instantaneous Reverse Current	V _{RRM} = 50V;T _J =25°C V _{RRM} = 50V;T _J =125°C	0.5 15	mA



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