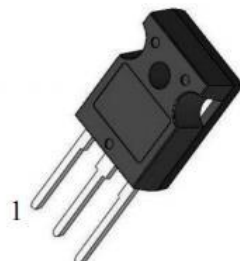


◆ Features:

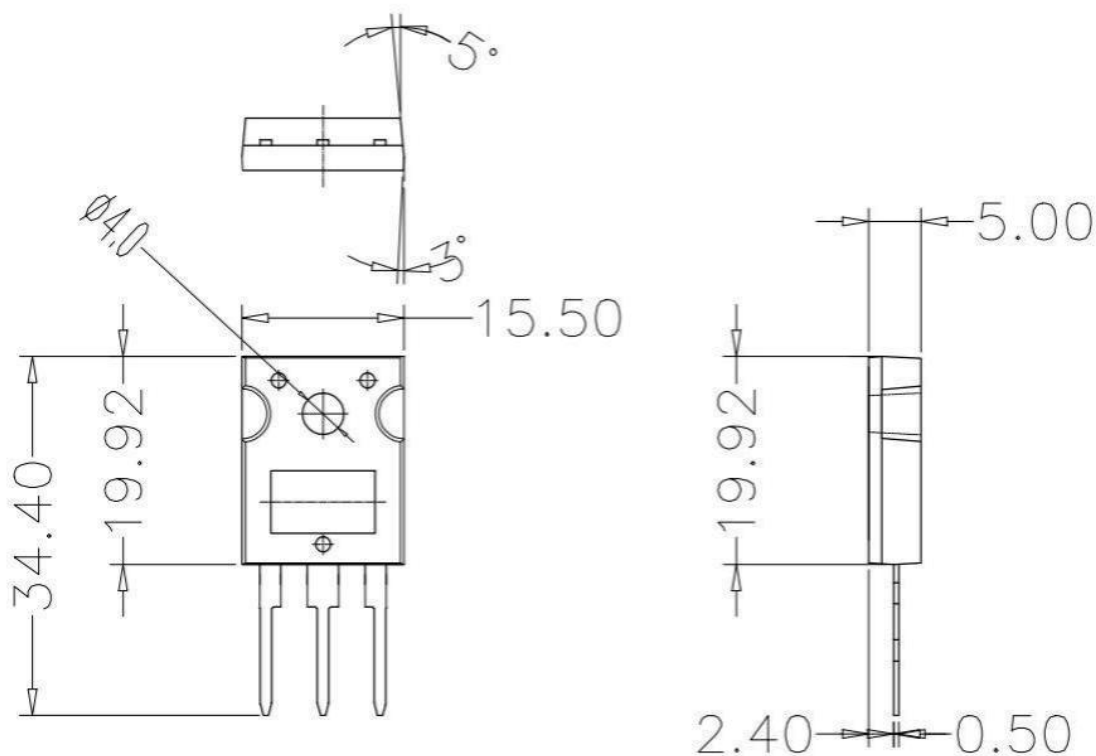
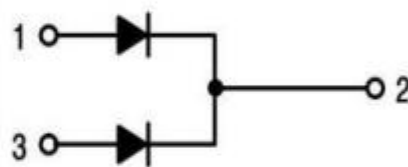
- ✧ Super fast recovery time. high voltage
快恢复时间，高电压
- ✧ Low forward voltage drop
正向压降低
- ✧ High efficiency and low power loss
高效低功耗
- ✧ High volume of current and good capability of surge current
大电流浪涌能力强

◆ Applications

- ✧ High frequency rectifier of switching mode power supplies
高频整流器开关电源
- ✧ Freewheeling diodes
续流二极管
- ✧ Polarity protection application
极性保护应用
- ✧ DC-DC converters
直流-直流变换器


TO-247S


PIN CONNECTIONS



◆ Absolute Maximum Ratings (T_c=25°C)

Symbol	Parameters	Ratings	Unit
V _{RRM}	Repetitive Peak Reverse Voltage 最大反向重复峰值电压	1200	V
V _{RWM}	Working peak reverse voltage 反向峰值工作电压	1200	V
V _R	Maximum DC blocking voltage 最大直流反向电压	1200	V
I _{F(AV)}	Maximum average forward rectified current Total device 最大正向平均电流	30	A
I _{FSM}	Peak Forward Surge Current 正向峰值浪涌电流	400	A
T _j	Operating junction temperature range 结温	175	°C
T _{stg}	Storage temperature range 贮存温度	-55~150	°C

◆ Electrical characteristics

Symbol	Parameters	Min	Typical	Max	Units	Conditions
I _R	Maximum Reverse Leakage Current (Note 1) 最大反向瞬态电流	--	-- 10	2 --	μA	V _R = 1200V, T _C = 25 °C V _R = 1200V, T _C = 125 °C
V _F	Maximum Instantaneous Forward Voltage (Note 2) 最大瞬态正向压降	--	2.0	2.4	V	I _F = 15A , T _C = 25 °C
R _{th(j-c)}	Typical Thermal Resistance, Junction to Case 结到外壳的典型热阻	--	--	0.55	°C/W	
T _{rr}	Reverse Recovery Time 恢复时间	--	32	--	ns	I _F = 1A, V _R = 30V, di/dt = -200A/us

Note 1: 2.0uS Pulse Width, f=1.0KHz

Note 2: Pulse Test : 300us Pulse Width, 1% Duty Cycle