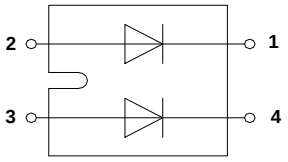
Rectifier Diode Module

Rev.1.6 Oct.22 2024

JU100K2/06

SOT-227



Symbol

Description

1) Low forward voltage drop
2) Two fully independent diodes
3) Fully insulated package
4) Easy to use and parallel
5) Industry standard outline
6) Designed and qualified for industrial level

Typical Application

Optimized for power conversion: welding and industrial SMPS applications

Absolute Maximum Ratings(Packaged into SOT-227, unless otherwise specified, T_{CASE}=25)

Parameter	Test Conditions	Symbol	Values	Unit
	J=25	V_{RSM}	600	V
Average forward current	T_C=50 , per diode	$I_{F(AV)}$	100	A
Peak on-state surge current	t_P=10ms,sin 180°,T_J=25	I_{FSM}	1000	A
I^2t value	t_P=10ms,sin 180°,T_J=25	I^2t	5000	A50في P
	F=1A,V_R=30V, -di/dt=100A/μs,T_j=25	t_{rr}	42	ns
	I_F=50A,V_R=400V, -di/dt=200A/μs,T_j=25 Ṇ		120	
Maximum recovered charge	I_F=50A,V_R=400V, -di/dt=200A/μs,T_j=25	Q_{rr}	400	nC
	I_F=50A,V_R=400V, -di/dt=200A/μs,T_j=125		1100	
Isolation voltage	A.C 50Hz(1s/1min)	V_{ISO}	3000/2500	V

Electrical Characteristics(Packaged into SOT-227, unless otherwise specified, T_{CASE}=25)

Parameter	Test Conditions	Symbol	Values	Unit

Mechanical Characteristics

Technical requirements
1.Unmarked tolerances of dimension are performed in accordance with GB/T 1804-2000 Level C
2.Unmarked tolerances of form and position are performed in accordance with GB/T 1184-1996 Level L