

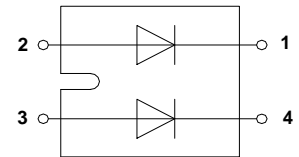
JU101K2/06

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



SOT-227



Symbol

Typical Application

Optimized for power conversion: welding and industrial SMPS applications

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

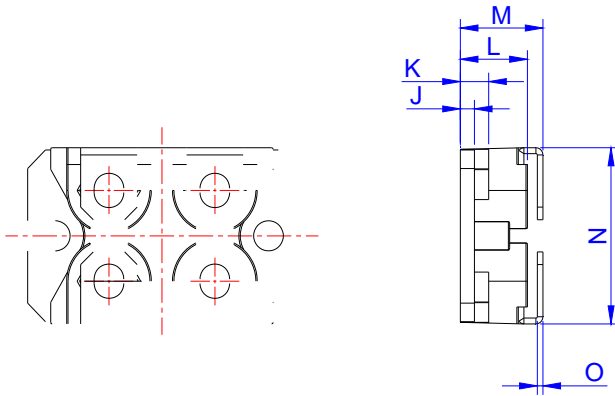
Parameter	Test Conditions	Symbol	Values	Unit
Junction temperature range		T_J	-40-150	
Storage temperature range		T_{STG}	-40-150	
Repetitive peak reverse voltage	$T_J=25$	V_{RRM}	600	V
Non-repetitive peak reverse voltage	$T_J=25$	V_{RSM}	600	V
Average forward current	$T_C=50$, per diode	$I_{F(AV)}$	100	A
Peak on-state surge current	$t_P=10ms, \sin 180^\circ, T_J=25$	I_{FSM}	1000	A
I^2t value	$t_P=10ms, \sin 180^\circ, T_J=25$	I^2t	5000	A^2s
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
			Min.	Typ.	Max.	
Forward voltage	$I_F=100A, T_J=25$	V_F	-	1.45	1.80	V
Reverse leakage current	$V_R=V_{RRM}, T_J=25$	I_R	-	-	0.01	mA
	$V_R=V_{RRM}, T_J=150$		-	-	20	mA
Maximum reverse recovery time	$I_F=100A, V_R=300V, -di/dt=200A/\mu s, T_J=25$	t_{rr}	-	150	250	ns



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