

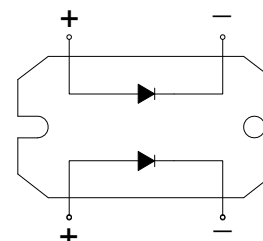
JD70K2

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



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
			12	16	18	20	
Repetitive peak reverse voltage	$T_j=25^{\circ}\text{C}, I_{RRM}=5\mu\text{A}$	V_{RRM}	1200	1600	1800	200	
Non-repetitive peak reverse voltage	$T_j=25$	\hat{A}	1300	1700	1900	210	
Average forward current		$I_{F(AV)}$	70				A
Surge forward current	$t_P=10\text{ms}, \sin 180^{\circ}, T_j=25$	I_{FSM}	840				A
I^2t value	$t_P=10\text{ms}, \sin 180^{\circ}, T_j=25$	I^2t	3500				A^2s
Isolation voltage	50Hz, 1min, RMS	V_{iso}	2500				V
Junction temperature range		T_j	-55~150				
Storage temperature range		T_{STG}	-55~150				

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

Parameter	Test Conditions	Symbol	Values			Unit
			Min.	Typ.	Max.	
Forward voltage	$I_F=70\text{A}, T_j=25$	V_F	-	1.05	1.25	V
Reverse leakage current	$V_R=V_{RRM}, T_j=25$	I_R	-	-	5	μA
	$V_R=V_{RRM}, T_j=150$		-	-	1.5	mA



Rectifier Diode Module

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

Parameter	Test Conditions	Symbol	Values			Unit
			Min.	Typ.	Max.	
Junction to case(per diode)		R_{thJC}	-	-	0.56	/W
Case to heatsink		R_{thCS}	-	0.10	-	
Weight			-	35	-	g
Mounting torque	Base plate to heatsink screw M4	M	1.0	-	1.5	N m
	Electrode to terminal screw M4		1.0	-	1.3	N m
Case style			SOT-227			

Ordering Information

<p>J</p> <p>JieJie Semiconductor Co.,Ltd</p> <p>General purpose rectifier diode</p>	<p>D</p>	<p>70</p> <p>$I_{F(AV)}=70A$</p>	<p>K2</p> <p>Dual circuit module</p>	<p>-12</p> <p>12: V_{RSM} 1300V 16: V_{RSM} 1700V 18: V_{RSM} 1900V 20: V_{RSM} 2100V</p>
--	-----------------	--	---	---

Rectifier Diode Module