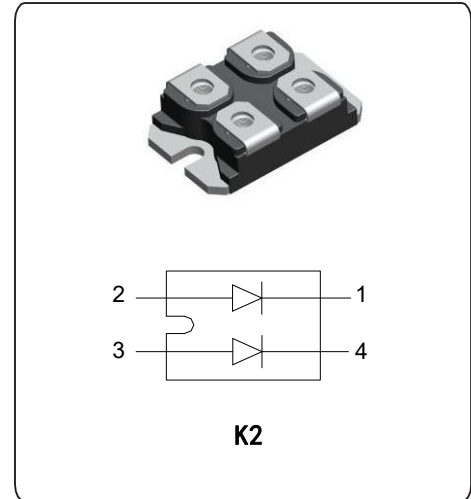


Features

- Two fully independent diodes
- Fully insulated package
- with high operation junction temperature (175°C T_j)
- Low forward voltage drop
- Optimized for power conversion: welding and industrial SMPS applications
- Easy to use and parallel
- Industry standard outline
- Designed and qualified for industrial level



Absolute Maximum Ratings

PARAMETER	SYMBOL	TEST CONDITIONS	MAX	UNIT
Cathode to anode voltage	V_R		1200	V
Continuous forward current per diode	I_F	$T_C=100^{\circ}\text{C}$	60	A
Single pulse forward current per diode	I_{FSM}	$T_C=25^{\circ}\text{C}$	1200	A
RMS isolation voltage	V_{isol}	Any terminal to case, $t=1$ minute	2500	V
Maximum junction temperature	T_J		-55 to 175	$^{\circ}\text{C}$
Maximum case temperature	T_J		150	$^{\circ}\text{C}$
Storage temperature	T_{stg}		-55 to 150	$^{\circ}\text{C}$

Electrical Characteristics

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Cathode to anode breakdown voltage	V_{BR}	$I_R=100\mu\text{A}$	1200	-	-	V
Forward voltage	V_{FM}	$I_F=60\text{ A } T_J=25^{\circ}\text{C}$			1.0	
		$I_F=60\text{ A } T_J=125^{\circ}\text{C}$			0.85	
Reverse leakage current	I_{RM}	$V_R=V_R \text{ rated } T_J=25^{\circ}\text{C}$			10	μA
		$V_R=V_R \text{ rated } T_J=175^{\circ}\text{C}$			5	mA

Thermal Mechanical Specifications

PARAMETE	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Junction to case ,single leg conducting	Rthjc		-	-	0.56	°C/w
Junction to case ,both leg conducting			-	-	0.28	
Case to heatsink	Rthcs	Flat,greased surface		0.075		
Weight				30		g
Mounting torque				1.3		Nm
Case style			SOT-227			

Ordering Information Tabel

Device code	J	K2	M	120	/	120
	①	②	③	④		⑤

- ① JH's power module
- ② Circuit configuration (2 separate diodes ,parallel pin-out)
- ③ Standard Recovery Diodes
- ④ Maximum average forward current (120A)
- ⑤ Voltage rating (120=1200V)

Performance Curves

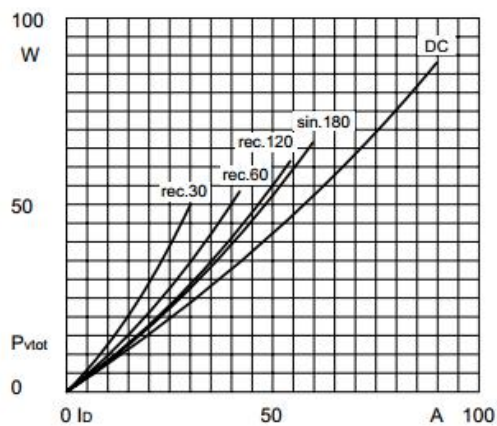


Fig1. Power dissipation

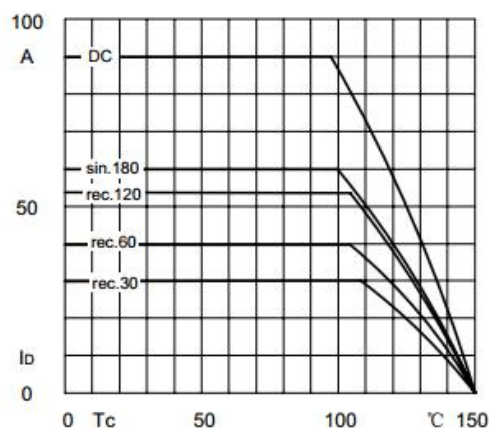


Fig2. Forward Current Derating Curve

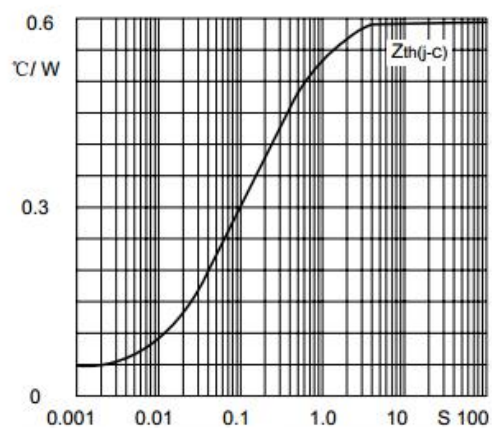


Fig3. Transient thermal impedance

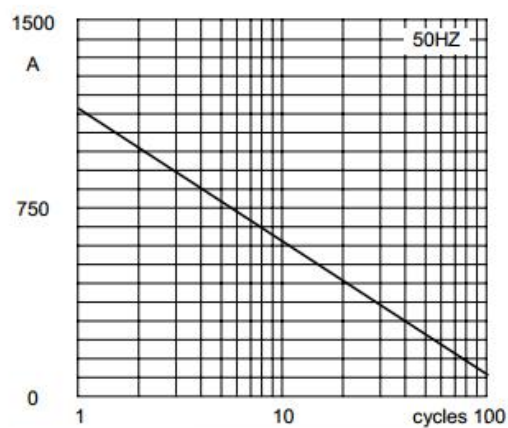


Fig4. Max Non-Repetitive Forward Surge Current

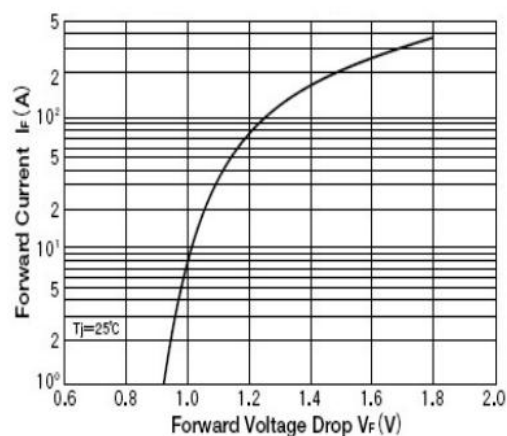
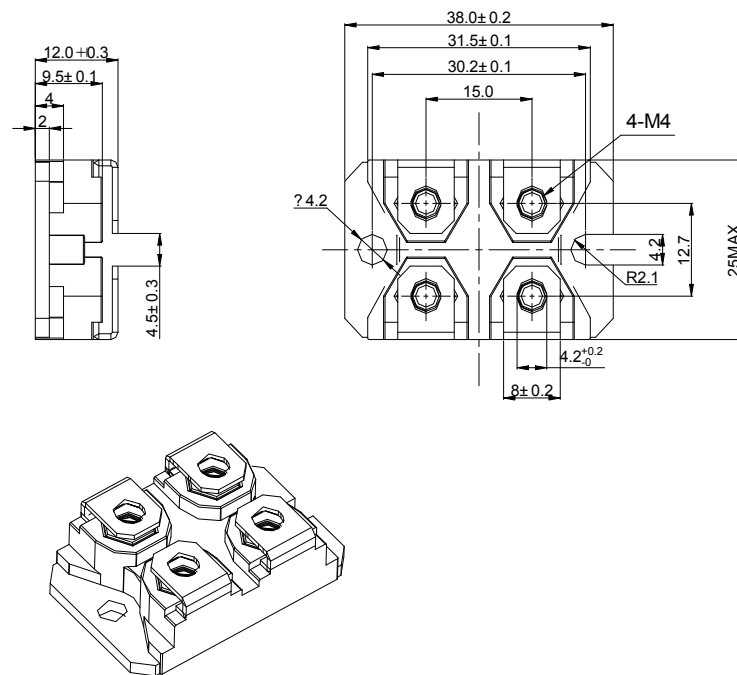


Fig5. Forward Characteristics

SOT-227 package



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