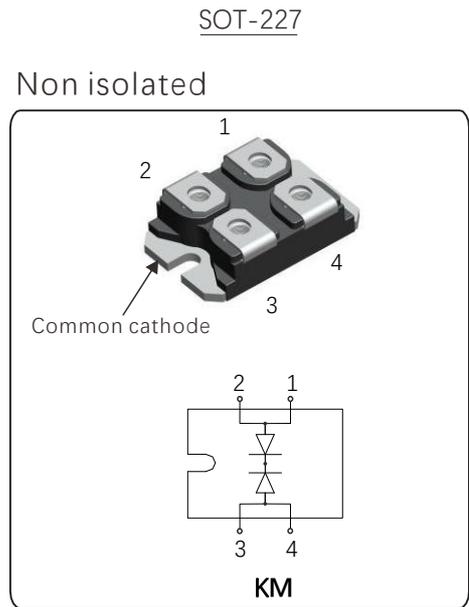


### FEATURES

- International standard package SOT-227
- Very low VF
- Extremely low switching losses
- Low IRM-values
- Component in accordance to RoHS 2015/863/EU

### MECHANICAL DATA

- Case: SOT-227
- Molding compound meets UL94V-0 flammability rating
- Polarity: As marked



### TYPICAL APPLICATIONS

- Rectifiers in switch mode power supplies(SMPS)
- Welding
- Converters

### ABSOLUTE MAXIMUM RATINGS

Parameters	Symbol	Test conditions	Value	Unit
Maximum repetitive peak reverse voltage	VRRM		100	V
Maximum Continuous forward current, per diode	IF	50% duty cycle @TC = 119°C, rectangular wave form	320	A
Single pulse forward current, per diode	IFSM	10 ms, half Sine pulse, TC=25°C	1400	A
Maximum junction temperature	TJ		150	°C
Maximum case temperature	Tc		150	°C
Storage temperture	Tstg		-55 ~ 150	°C

## ELECTRICAL CHARACTERISTICS

Parameters	Symbol	Test conditions	Min	Typ	Max	Units
Cathode to anodebreak down voltage	VBR	$I_r=200\mu A$	100	-	-	V
Forward voltage	V <sub>F</sub>	$I_f=160A \quad T_j=25^\circ C$		-	0.92	
		$I_f=160A \quad T_j=125^\circ C$		-	0.80	
Reverse leakage current	I <sub>R</sub>	$V_r=V_{Rrated} \quad T_j=25^\circ C$		-	500	uA
		$V_r=V_{Rrated} \quad T_j=125^\circ C$		-	100	mA

## THERMAL MECHANICAL SPECIFICATIONS

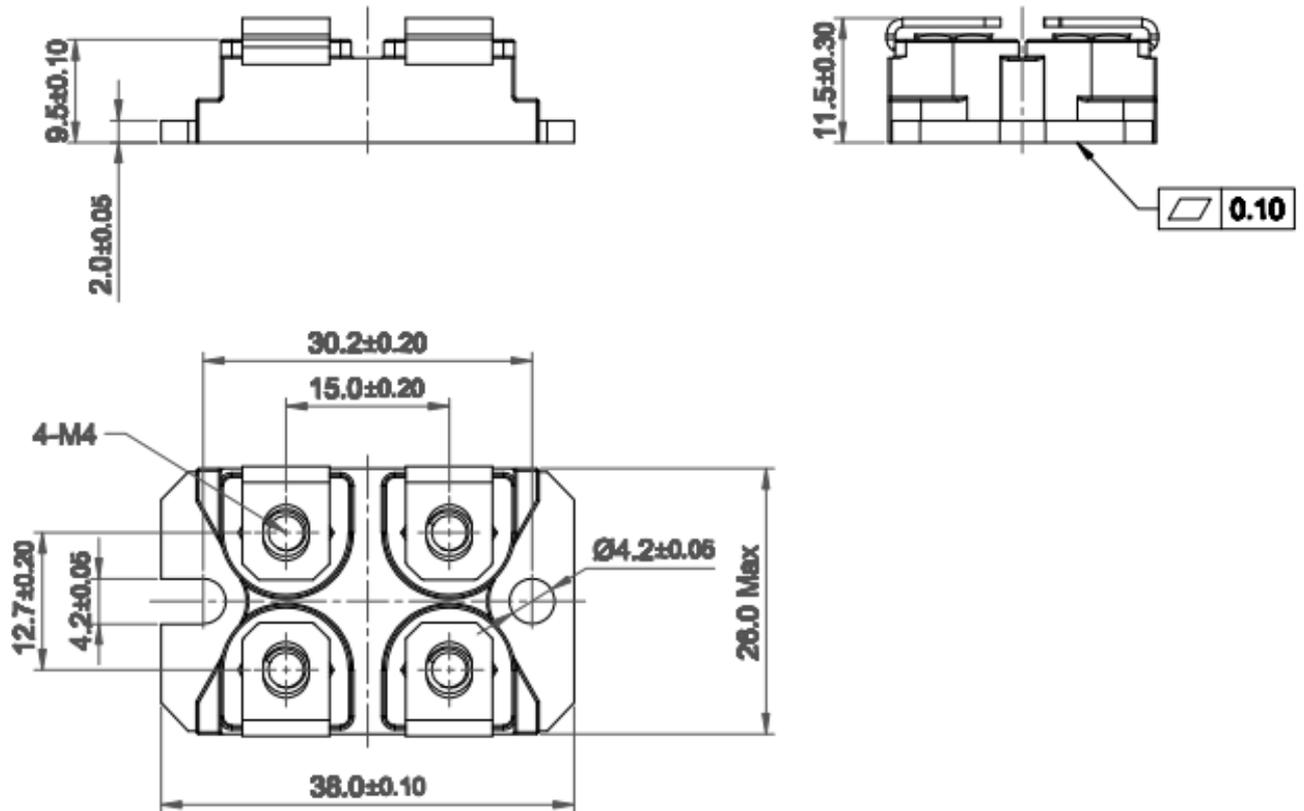
Parameters	Symbol	Test conditions	Min	Typ	Max	Units
Junction to case, per leg	R <sub>thjc</sub>		-	-	0.19	°C/W
Junction to case, per package			-	-	0.095	
Case to heatsink	R <sub>thcs</sub>	Flat,greased surface		0.07		
Weight				30		g
Mounting torque				1.3		Nm
Case style			SOT-227			

## ORDERING INFORMATION TABEL

Device code	J	KM	S	320	-	100
	①	②	③	④		⑤

- ① JH 's power module
- ② Circuit configuration (KM Non isolated)
- ③ Schottky Diodes
- ④ Maximum average forward current (320A)
- ⑤ Voltage rating(100V)

SOT-227package



## Friendship Reminder

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