

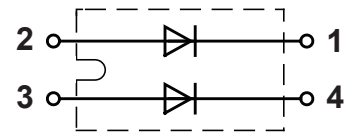
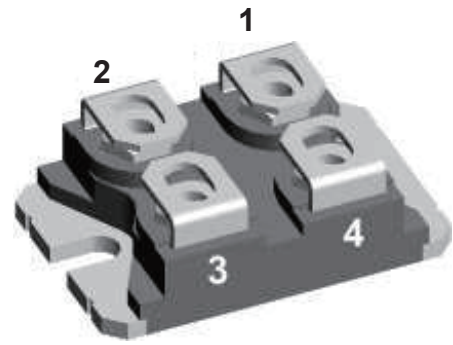
DSEI2X61-12B

Features

- ▶ International standard package
- ▶ Isolation voltage 2500 VAC
- ▶ 2 independent FRED in 1 package
- ▶ Planar passivated chips
- ▶ Very short recovery time
- ▶ Extremely low switching losses
- ▶ Low IRM-values
- ▶ Soft recovery behaviour

Typical Applications

- ▶ Antiparallel diode for high frequency switching devices
- ▶ Free wheeling diode in converters and motor control circuits
- ▶ Inductive heating and melting
- ▶ Ultrasonic cleaners and welders
- ▶ Uninterruptible power supplies (UPS)
- ▶ Anti saturation diode
- ▶ Snubber diode
- ▶ AC/DC Motor drives
- ▶ Rectifiers in switch mode power supplies (SMPS)



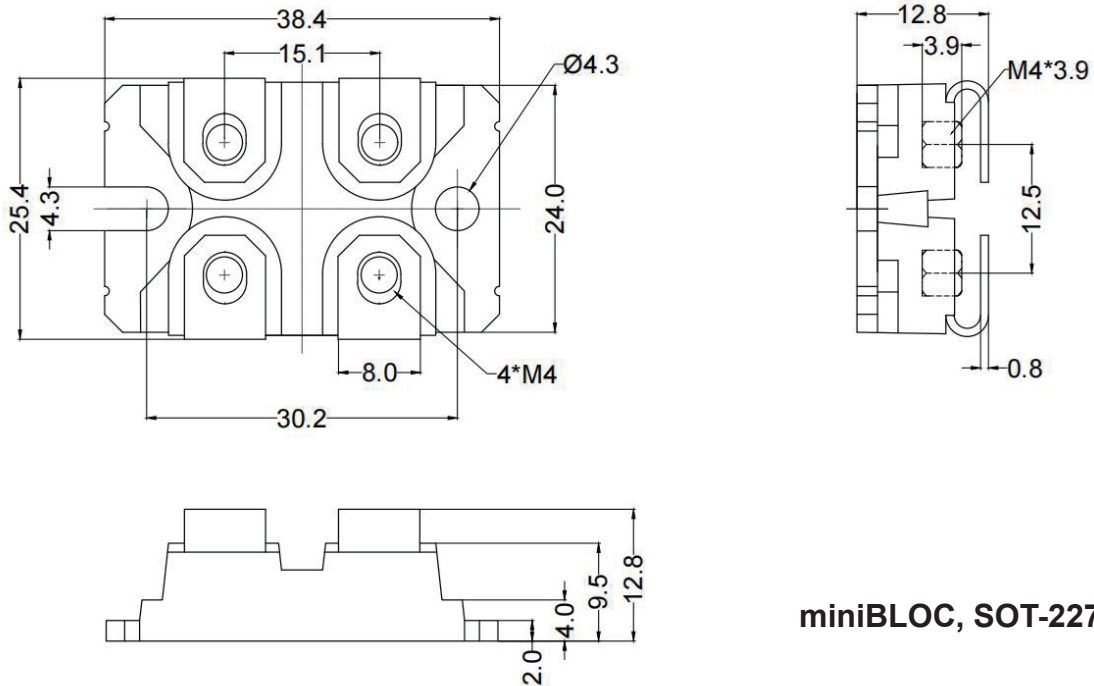
Absolute Maximum Ratings (Tc=25°C unless otherwise specified)

Symbol	Parameter/Test Conditions	Values	Unit	
VR	Maximum d.c. Reverse Voltage	1200	V	
VRRM	Maximum Repetitive Reverse Voltage	1200	V	
IF(AV)	Average Forward Current	Tc=90°C, Per Diode	60	A
		Tc=90°C, Per Module, Tvj=150°C	2x60	A
IF(RMS)	RMS Forward Current	Tc=90°C, Per Diode	85	A
IFSM	Non Repetitive Surge Forward Current	Tj=45°C, 10ms, Sine, peak value	500	A
I²t	For Fusing	Tj=45°C, 10ms, Sine, peak value	1250	A²S
		Tj=45°C, 18.3ms, Sine, peak value	1510	A²S
PD	Power Dissipation	200	W	
Tj	Junction Temperature	-40 to +150	°C	
TSTG	Storage Temperature Range	-40 to +150	°C	
Viso	Isolation Breakdown Voltage	AC, 50Hz(RMS), t=1min	2500	V
Rthjc	Junction to Case Thermal Resistance(Per Diode)	0.6	°C/W	
Torque	Module to Sink	M4	1.0-1.5	Nm
	Module Electrodes	M4	1.0-1.5	Nm
Weight		30	g	

ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise specified)

Symbol	Parameter/Test Conditions	Min.	Typ.	Max.	Unit
IRRM	Maximum Reverse Leakage Current			0.05	mA
		VR=1200V			
VF	Forward Voltage		2.1	2.8	V
		IF=60A			
trr	Reverse Recovery Time (IF=1A, dIF/dt=-200A/μs, VR=30V)		45		ns
		IF=60A, Tj=125°C			
IRM	Maximrm Reverse Recovery Current		17		A

Outlines



miniBLOC, SOT-227

