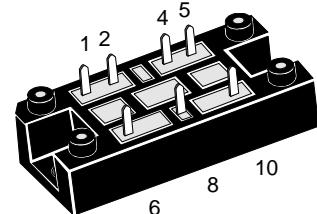
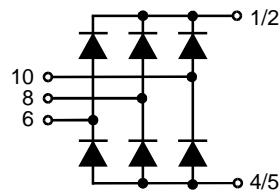


Three Phase Rectifier Bridge

V_{RRM} = 1200 V
I_{dAV} = 50 A
t_{rr} = 40 ns

V _{RSM} V	V _{RRM} V	Type
1200	1200	VUE 50-12NO1



Symbol	Test Conditions	Maximum Ratings		
I _{dAV}	T _K = 85°C, module	50	A	
I _{FSM}	T _{VJ} = 45°C; V _R = 0	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	200 210	A A
	T _{VJ} = T _{VJM} V _R = 0	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	185 195	A A
I ² t	T _{VJ} = 45°C V _R = 0	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	200 180	A ² s A ² s
	T _{VJ} = T _{VJM} V _R = 0	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	170 160	A ² s A ² s
T _{VJ}			-40...+150	°C
T _{VJM}			150	°C
T _{stg}			-40...+125	°C
V _{ISOL}	50/60 Hz, RMS I _{ISOL} ≤ 1 mA	t = 1 min t = 1 s	3000 3600	V~ V~
M _d	Mounting torque (M5) (10-32UNF)		2 - 2.5 18-22	Nm lb.in.
Weight	typ.		35	g

Symbol	Test Conditions	Characteristic Values		
		typ.	max	
I _R	V _R = V _{RRM} V _R = 0.8 V _{RRM}	T _{VJ} = 25°C T _{VJ} = 125°C	4	0.75 mA 7 mA
V _F	I _F = 30 A;	T _{VJ} = 25°C		2.55 V
V _{T0}	For power-loss calculations only		1.65 V 18.2 mΩ	
r _T				
R _{thJS}	per diode, per module,	120° rect. 120° rect.	1.5 K/W 0.25 K/W	
I _{RM}	I _F = 30 A, -di _F /dt = 240 A/μs V _R = 540 V, L ≤ 0.05 μH, T _{VJ} = 100°C		16	18 A
t _{rr}	I _F = 1 A; -di/dt = 100 A/μs; V _R = 30 V, T _{VJ} = 25°C		40	60 ns
d _s	Creeping distance on surface		12.7 mm	
d _a	Creepage distance in air		9.4 mm	
a	Max. allowable acceleration		50 m/s ²	

Data according to IEC 60747 and refer to a single diode unless otherwise stated.
 IXYS reserves the right to change limits, test conditions and dimensions.

Features

- Package with DCB ceramic base plate
- Isolation voltage 3600 V~
- Planar passivated chips
- Leads suitable for PC board soldering
- Creeping and creepage-distance fulfils UL 508/CSA 22.2NO14 and VDE 0160 requirements
- Epoxy meet UL94V-O
- UL registered E72873

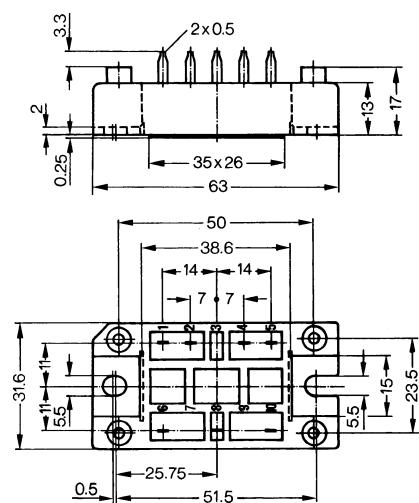
Applications

- Supplies for DC power equipment
- Input rectifiers for PWM inverter
- Output filter for PWM inverter

Advantages

- Reduced EMI/RFI
- Easy to mount with two screws
- Space and weight savings
- Improved temperature and power cycling

Dimensions in mm (1 mm = 0.0394")



Use output terminals in parallel connections

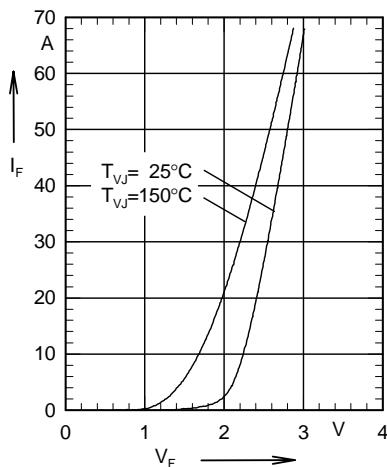


Fig. 1 Forward current versus voltage drop per diode.

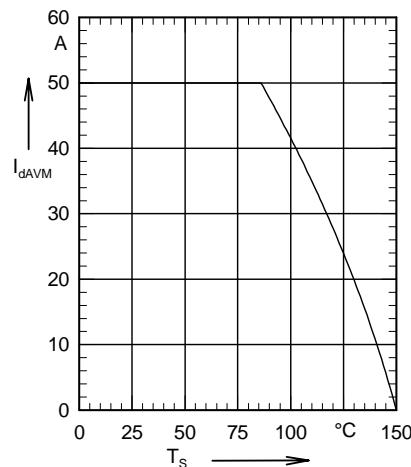


Fig. 2 Maximum forward current at heatsink temperature T_S .

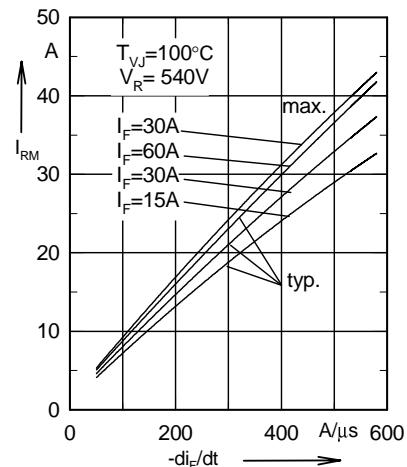


Fig. 3 Typical peak reverse current versus $-di_F/dt$.

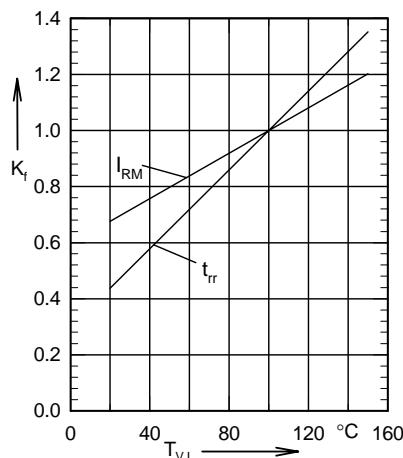


Fig. 4 Dynamic parameters versus junction temperature.

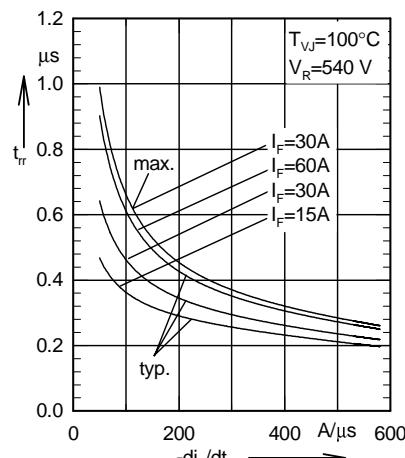


Fig. 5 Typical recovery time versus $-di_F/dt$.

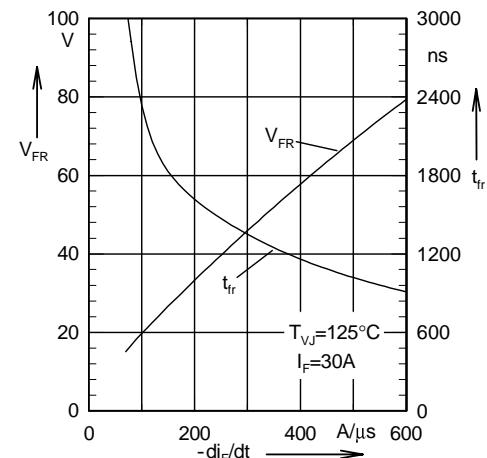


Fig. 6 Typical peak forward voltage and forward recovery time versus $-di_F/dt$.

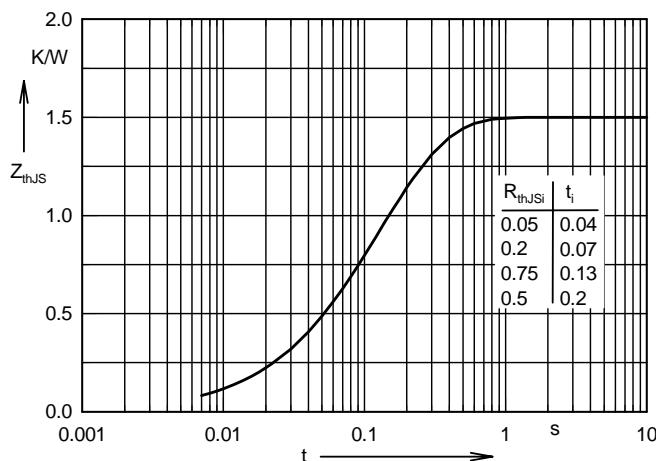


Fig. 7 Transient thermal impedance junction to heatsink

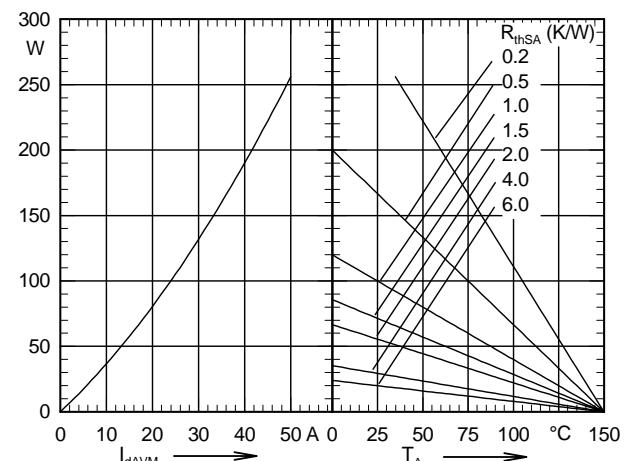


Fig. 8 Power dissipation versus direct output current and ambient temperature

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