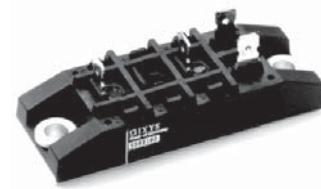
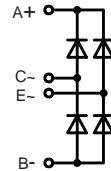


Single Phase Rectifier Bridge

I_{dAV} = 55 A
V_{RRM} = 800-1600 V

V _{RSM}	V _{RRM}	Types
V	V	
900	800	VBO 55-08NO7
1300	1200	VBO 55-12NO7
1500	1400	VBO 55-14NO7
1700	1600	VBO 55-16NO7
1900	1800	VBO 55-18NO7



Symbol	Conditions	Maximum Ratings		
I _{dAV} ①	T _C = 100°C, module	55	A	
I _{FSM}	T _{VJ} = 45°C; V _R = 0	750 t = 10 ms (50 Hz), sine 820 t = 8.3 ms (60 Hz), sine	A	
	T _{VJ} = T _{VJM} ; V _R = 0	600 t = 10 ms (50 Hz), sine 700 t = 8.3 ms (60 Hz), sine	A	
I ² t	T _{VJ} = 45°C; V _R = 0	2800 t = 10 ms (50 Hz), sine 2820 t = 8.3 ms (60 Hz), sine	A ² s	
	T _{VJ} = T _{VJM} ; V _R = 0	2200 t = 10 ms (50 Hz), sine 2250 t = 8.3 ms (60 Hz), sine	A ² s	
T _{VJ}		-40...+150	°C	
T _{VJM}		150	°C	
T _{stg}		-40...+125	°C	
V _{ISOL}	50/60 Hz, RMS t = 1 min	2500	V~	
	I _{ISOL} ≤ 1 mA t = 1 s	3000	V~	
M _d	Mounting torque (M5) (10-32 UNF)	5 ±15% 44 ±15%	Nm lb.in.	
Weight	typ.	110	g	

Symbol	Conditions	Characteristic Values		
I _R	V _R = V _{RRM} ; T _{VJ} = 25°C	≤ 0.5	mA	
	V _R = V _{RRM} ; T _{VJ} = T _{VJM}	≤ 10	mA	
V _F	I _F = 150 A; T _{VJ} = 25°C	≤ 1.6	V	
V _{T0}	For power-loss calculations only	0.8	V	
r _T	T _{VJ} = T _{VJM}	6	mΩ	
R _{thJC}	per diode; DC current	1.3	K/W	
	per module	0.325	K/W	
R _{thJK}	per diode, DC current	1.6	K/W	
	per module	0.4	K/W	
d _s	Creeping distance on surface	16.1	mm	
d _A	Creepage distance in air	7.5	mm	
a	Max. allowable acceleration	50	m/s ²	

Data according to IEC 60747 refer to a single diode unless otherwise stated.

IXYS reserves the right to change limits, test conditions and dimensions.

Features

- Package with copper base plate
- Isolation voltage 3000 V~
- Planar passivated chips
- Low forward voltage drop
- ¼" fast-on power terminals

Applications

- Supplies for DC power equipment
- Input rectifiers for PWM inverter
- Battery DC power supplies
- Field supply for DC motors

Advantages

- Easy to mount with two screws
- Space and weight savings
- Improved temperature and power cycling capability
- Small and light weight

Dimensions in mm (1 mm = 0.0394")

