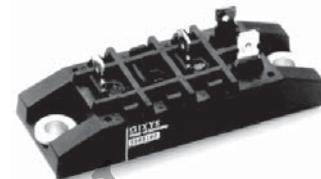
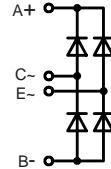


Single Phase Rectifier Bridge

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

V _{RSM} V	V _{RRM} V	Types
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	750 820	A A	
	T _{VJ} = T _{VJM} V _R = 0	600 700	A A	
I ² t	T _{VJ} = 45°C V _R = 0	2800 2820	A ² s A ² s	
	T _{VJ} = T _{VJM} V _R = 0	2200 2250	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	2500 3000	V~ 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 _{TO}	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.

20070731a

Recommended replacement:
VBO65-##NO7

