

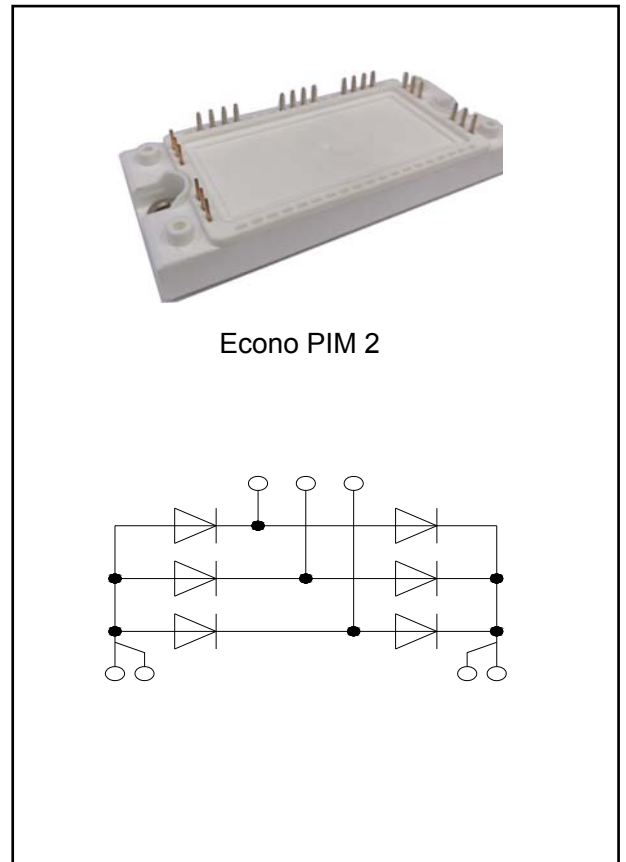
## Three Phase Rectifier Bridge Module

### Description:

- 1) Low forward voltage and leakage current
- 2) Low inductance package
- 3) High surge current capability

### Typical Application:

- 1) Field supply for DC motors
- 2) Line rectifiers for transistorized AC motor controllers
- 3) Non-controllable rectifiers for AC/DC converter



### Absolute Maximum Ratings (Packaged into Econo PIM 2, unless otherwise specified, T<sub>CASE</sub>=25°C)

Parameter	Test Conditions	Symbol	Values	Unit
Junction temperature range		T <sub>J</sub>	-40~+150	°C
Storage temperature range		T <sub>STG</sub>	-40~+125	°C
Repetitive peak reverse voltage		V <sub>R<sub>RM</sub></sub>	2200	V
Non-repetitive peak reverse voltage		V <sub>R<sub>SM</sub></sub>	2300	V
Output current	T <sub>C</sub> =95°C	I <sub>D</sub>	240	A
Forward surge current	1/2 cycle, Sine wave	I <sub>FSM</sub>	2200	A
Value for fusing	50Hz, T <sub>J</sub> =25°C	I <sup>2</sup> t	24200	A <sup>2</sup> s
RMS isolation voltage	A.C 50Hz(1s/1min)	V <sub>isol</sub>	4300/3600	V

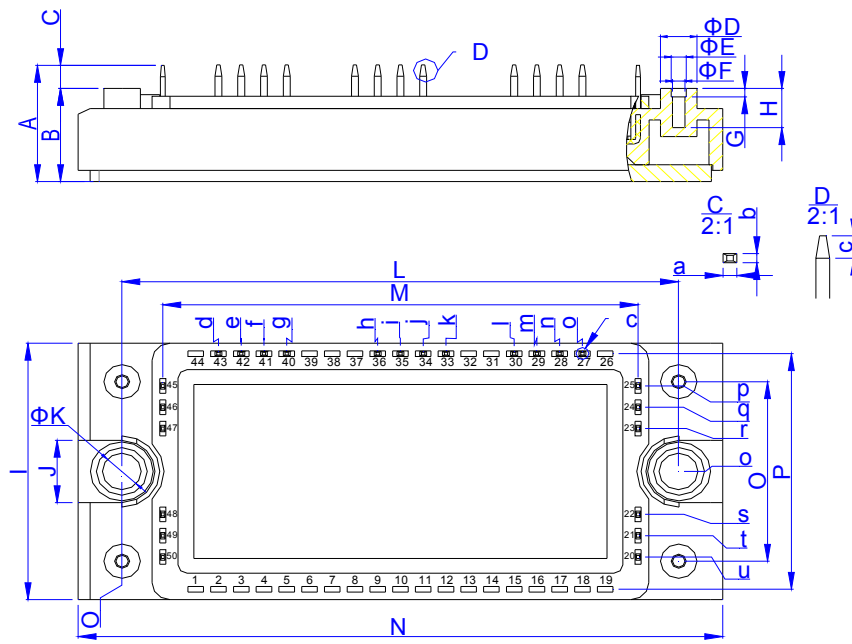
**Electrical Characteristics** (Packaged into Econo PIM 2, unless otherwise specified,  $T_{CASE}=25^{\circ}C$ )

Parameter	Test Conditions	Symbol	Values			Unit
			Min.	Typ.	Max.	
Forward voltage	$I_F=240A, T_J=25^{\circ}C$	$V_{FM}$	-	-	1.6	V
Reverse leakage current	$V_R=V_{RRM}, T_J=25^{\circ}C$	$I_{RRM}$	-	-	0.1	mA
	$V_R=V_{RRM}, T_J=150^{\circ}C$		-	-	30	mA
Threshold voltage	$T_J=150^{\circ}C$ , for power loss calculation only	$V_{TO}$	-	-	0.85	V
Slope resistance		$r_T$	-	-	2.0	m $\Omega$

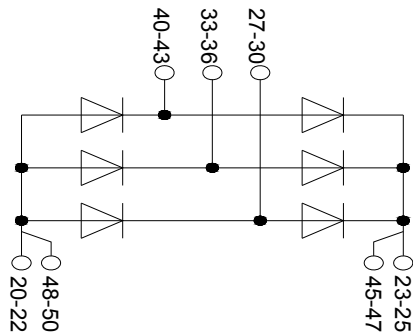
**Thermal Characteristics** (Packaged into Econo PIM 2, unless otherwise specified,  $T_{CASE}=25^{\circ}C$ )

Parameter	Test Conditions	Symbol	Values			Unit
			Min.	Typ.	Max.	
Thermal impedance (junction to case)	Per diode	$R_{th(j-c)}$	-	-	0.35	$^{\circ}C/W$
Mounting torque	Module torque	M	3	-	6	Nm
Weight			185			g
Case style			Econo PIM 2			

**Mechanical Characteristics(mm)**



Ref	Dimensions					
	Millimeters			Inches		
	Min	Typ	Max	Min	Typ	Max
A	20.5	21	21.5	0.807	0.827	0.846
B	16.3	16.8	17.3	0.642	0.661	0.681
C	3.8	4.3	4.8	0.150	0.169	0.189
D		6			0.236	
E	2.2	2.5	2.8	0.087	0.098	0.110
F	1.8	2.1	2.4	0.071	0.083	0.094
G	1.2	1.5	1.8	0.047	0.059	0.071
H		6			0.236	
I	44.5	45	45.5	1.752	1.772	1.791
J		11			0.433	
K	5	5.5	6	0.197	0.217	0.236
L	92.7	93	93.3	3.650	3.661	3.673
M		79.2			3.118	
N	107	107.5	108	4.213	4.232	4.252
O	31.7	32	32.3	1.248	1.260	1.272
P		41.9			1.650	
a	1.1	1.2	1.3	0.043	0.047	0.051
b	0.6	0.8	1	0.024	0.031	0.039
c	1.1	1.7	2.3	0.043	0.067	0.091
d		16.02			0.631	
e		19.83			0.781	
f		23.64			0.931	
g		27.45			1.081	
h		42.69			1.681	
i		46.5			1.831	
j		50.31			1.981	
k		54.12			2.131	
l		65.55			2.581	
m		69.36			2.731	
n		73.17			2.881	
o		76.98			3.031	
p		15.24			0.600	
q		11.43			0.450	
r		7.62			0.300	
s		7.62			0.300	
t		11.43			0.450	
u		15.24			0.600	



symbol