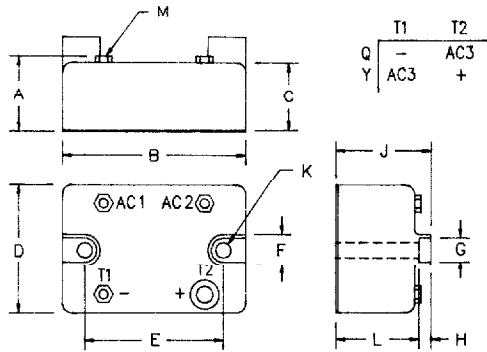


3 Phase Bridge Modules EH150Y, EH150Q—



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A		1.10		27.94	
B	2.25	2.40	57.15	60.96	
C	.930	.950	23.62	24.13	
D	1.740	1.760	44.19	44.70	
E	1.883	1.887	47.82	47.92	
F	.495	.505	12.57	12.83	
G	.325	.335	8.25	8.50	
H	.215	.225	5.46	5.71	
J	1.270	1.300	32.25	33.02	
K	.198	.208	5.02	5.28	Dia.
L	1.055	1.075	26.79	27.30	
M	#10 32 TAPPED HOLES				

Note: (+) or (-) terminal 1/4-20 tapped hole.

Microsemi Catalog Number	Repetitive Peak Reverse Voltage	
EH15002Y EH15002Q—	200	
EH15004Y EH15004Q—	400	
EH15006Y EH15006Q—	600	
EH15008Y EH15008Q—	800	
EH15010Y EH15010Q—	1000	
EH15012Y EH15012Q—	1200	
EH15014Y EH15014Q—	1400	

Both Q— and Y Part Numbers are needed to complete 3Ø Rectification

- Maximum Surge Current 1600 Amps
- High Terminal-to-base Isolation of 2500VAC RMS
- Available to 1400 Volts
- Mounting Bolts Isolated From Power Terminals

Electrical Characteristics

Maximum DC output current, 3 phase	Io 150 Amps	TC = 128°C, 120°conduction, RθJC = 0.7°C/W
Maximum surge current per diode	IFSM 1600 Amps	8.3ms, half sine, TJ = 175°C
Max. I ² t for fusing	I ² t 10600 A ² s	
Max. peak forward voltage per diode	VFM 1.0 Volt	IFM = 50A; TJ = 25°C*
Max. peak reverse current per diode	IRM 5 µA	VRRM, TJ = 25°C
Max. peak reverse current per diode	IRM 3 mA	VRRM, TJ = 150°C*
Minimum isolation voltage	VISOL 2500VRMS	any terminal-to-base

*Pulse test: Pulse width 300 µsec, Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temp range	TSTG	-40°C to + 175°C
Operating junction temp range	TJ	-40°C to + 175°C
Max thermal resistance per diode	RθJC	0.7°C/W Junction to case
Typical thermal resistance per diode	RθJC	0.5°C/W Junction to case
Max mounting torque		20 inch pounds
Typical thermal resistance	RθCS	0.07°C/W Case to sink
Weight		6.4 ounces (182 grams) typical

Microsemi Corp.
Colorado

PH: 303-469-2161
FAX: 303-466-3775

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EH150Y, EH150Q—

Figure 1
Typical Forward Characteristics — Per Diode

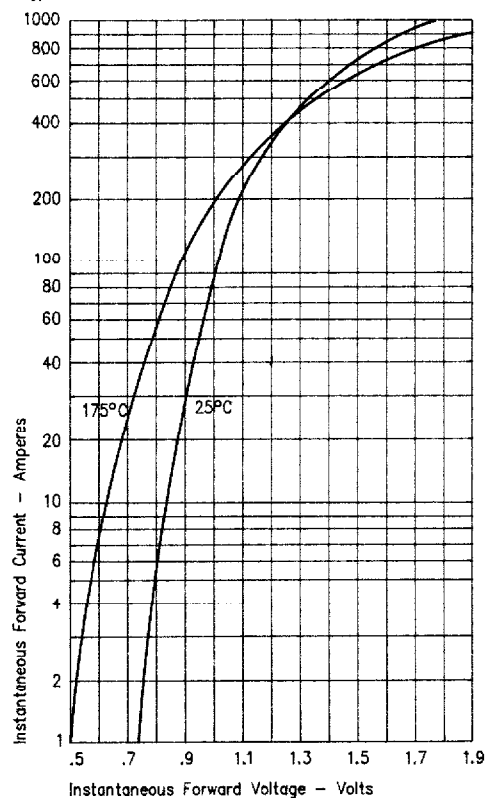


Figure 3
Maximum Nonrepetitive Surge Current — Per Diode

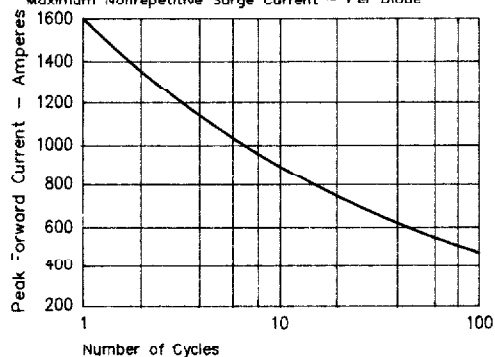


Figure 2
Forward Current Derating — Per Diode

