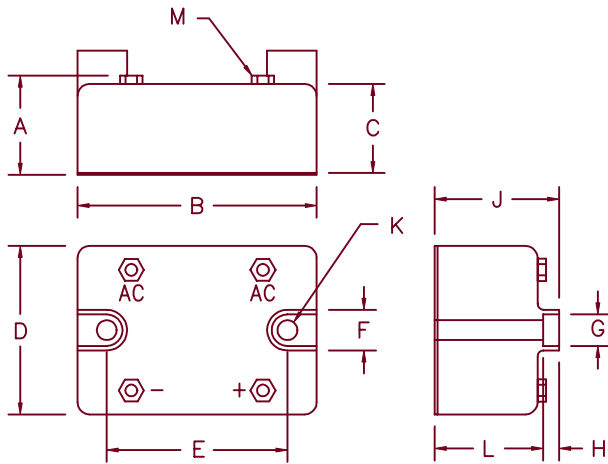


Single Phase Bridge Modules EH60, EH75



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				

Microsemi Catalog Number

EH6002B*	EH7502B*
EH6004B*	EH7504B*
EH6006B*	EH7506B*
EH6008B*	EH7508B*
EH6010B*	EH7510B*
EH6012B*	EH7512B*

Repetitive Peak Reverse Voltage

200
400
600
800
1000
1200

*Add S for Transient Suppressor across output

- Integral Transient Suppression Available
- High Terminal-to-base Isolation
- Available to 1200V
- Mounting Bolts Isolated From Power Terminals

Electrical Characteristics

	EH60	EH75	
Maximum DC output current, single phase	I_o 60A	75A	$T_C = 113^\circ\text{C}$
Maximum surge current per diode	I_{FSM} 1050A	1500A	8.3ms, half sine, $T_J = 175^\circ\text{C}$
Max. I^2t for fusing	I^2t 4600A ² S	9300A ² S	
Max. peak forward voltage per diode	V_{FM} 1.2V	1.1V	@ I_o ; $T_J = 25^\circ\text{C}^*$
Max. peak reverse current per diode	I_{RM} —	4mA	V_{RRM} , $T_J = 150^\circ\text{C}$
Max. peak reverse current per diode	I_{RM} —	20 μA	V_{RRM} , $T_J = 25^\circ\text{C}$
Minimum isolation voltage	V_{ISOL} 1500V _{RMS}		any terminal-to-base

*Pulse Test: Pulse width 300 μsec duty cycle 2 %

Thermal and Mechanical Characteristics

Storage temp range	T_{STG}	-55°C to 175°C
Operating junction temp range	T_J	-55°C to 175°C
Max thermal resistance per diode	EH60 $R_{\theta JC}$	1.0°C/W Junction to case
	EH75 $R_{\theta JC}$	0.85°C/W Junction to case
Mounting torque		25–30 lb-in
Typical thermal resistance (greased)	$R_{\theta CS}$	0.07°C/W Case to sink
Typical Weight		5.8 ounces (165 grams)

EH60, EH75

Figure 1
Typical Forward Characteristics – Per Diode

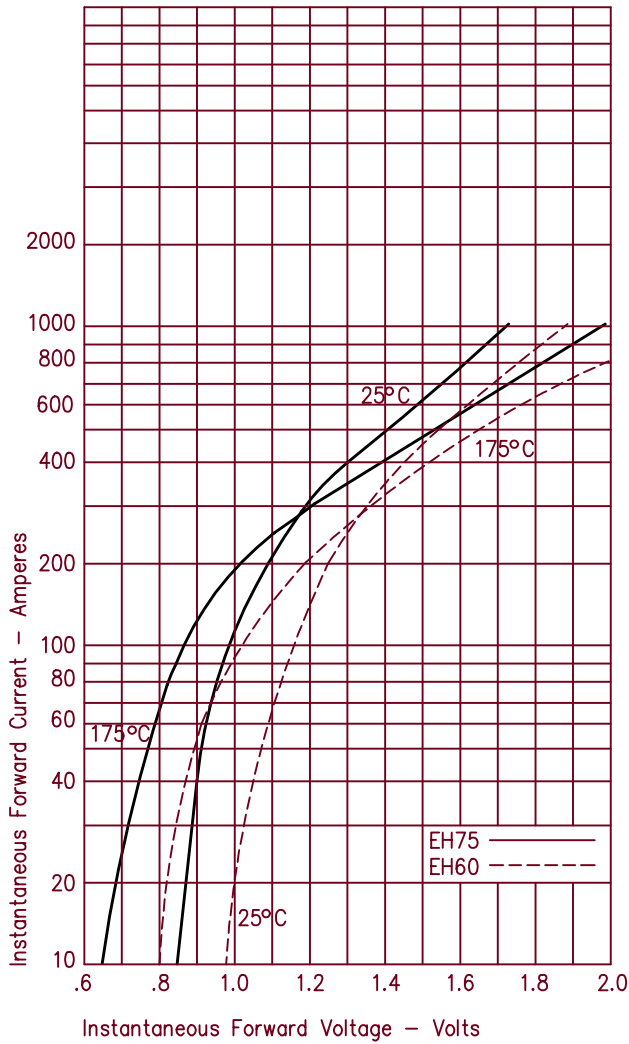


Figure 3
Maximum Nonrepetitive Surge Current – Per Diode

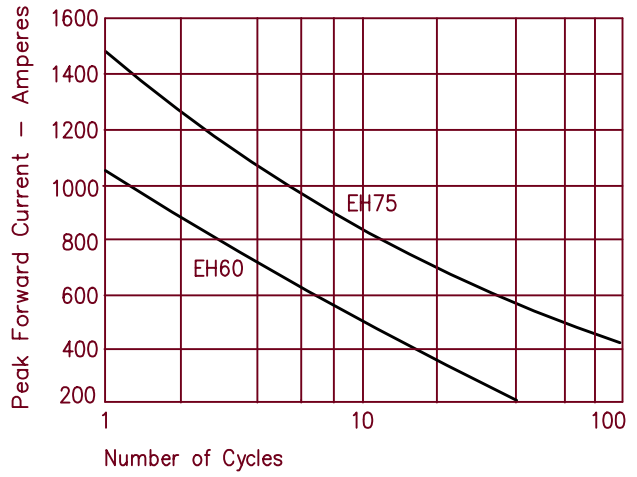
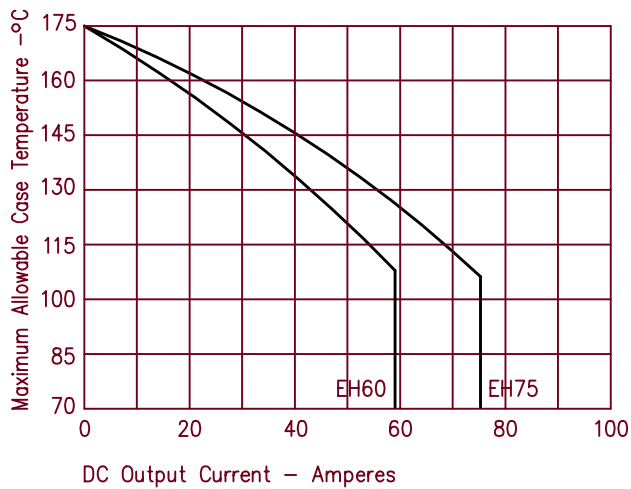


Figure 2
Forward Current Derating





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