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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





MODEL	BRFS30	BRFS40	BRFS50	BRFS50L	BRFS60	BRFS60S	BRFS100	BRFS120	BRFS150
MAX OUTPUT CURRENT[A]	30.0	40.0	50.0	50.0	60.0	60.0	100.0	120.0	150.0
DC OUTPUT	0.8 - 3.63V	0.6 - 2.0V	0.7 - 2.0V	0.7 - 2.0V	0.7 - 2.0V	0.6 - 2.0V	0.7 - 2.0V	0.6 - 1.8V	0.6 - 1.8V

SPECIFICATIONS

	MODEL	BRFS30	BRFS40	BRFS50	BRFS50L	BRFS60	BRFS60S	BRFS100	BRFS120	BRFS150	
INPUT	VOLTAGE[V]	DC4.5 - 14.0									
	CURRENT[A] *1	3.41 typ	4.52 typ	5.68 typ	5.68 typ	6.82 typ	6.71 typ	11.24 typ	13.50 typ	16.90 typ	
	EFFICIENCY[%] *1	88.0 typ	88.5 typ	88.0 typ	88.0 typ	88.0 typ	89.5 typ	89.0 typ	89.0 typ	89.0 typ	
OUTPUT	VOLTAGE[V] *2	0.8 - 3.63	0.6 - 2.0	0.7 - 2.0	0.7 - 2.0	0.7 - 2.0	0.6 - 2.0	0.7 - 2.0	0.6 - 1.8	0.6 - 1.8	
	CURRENT[A]	30	40	50	50	60	60	100	120	150	
	LINE REGULATION[mV]	5									
	LOAD REGULATION[mV]	5									
	RIPPLE[mVp-p] *3	25									
	RIPPLE NOISE[mVp-p] *3	50									
	OUTPUT VOLTAGE SETTING [%Vo]	±1									
	DRIFT[mV] *4	5	5								
	START-UP TIME[ms]	8.0 typ					12.0 typ *6	8.0 typ	12.0 typ *6		
	OUTPUT VOLTAGE ADJUSTMENT RANGE	Adjustable by external resistor									
		0.8 - 3.63	0.6 - 2.0	0.7 - 2.0	0.7 - 2.0	0.7 - 2.0	0.6 - 2.0	0.7 - 2.0	0.6 - 1.8	0.6 - 1.8	
	OUTPUT VOLTAGE TOTAL REGULATION [%Vo]*5	±3	±3								
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating (auto recovery type)									
	REMOTE SENSING	Available (+S only) Available					Available (+S only) Available				
	REMOTE ON/OFF	Available Negative logic L:ON, H:OFF									
ISOLATION	INPUT-OUTPUT	non-isolated									
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-40 to +85°C, 20-95%RH (Non condensing) (Refer to DERATING CURVE) 3,000m (10,000feet) max									
	STORAGE TEMP., HUMID. AND ALTITUDE	-40 to +100°C, 20-95%RH (Non condensing), 9,000m (30,000feet) max									
	VIBRATION	10-55Hz, 49.0m/s ² (5G), 3minutes period, 60minutes each along X, Y and Z axis									
	IMPACT	196.1m/s ² (20G), 11ms, once each along X, Y and Z axis									
SAFETY	AGENCY APPROVALS	UL60950-1, C-UL (CSA60950-1), EN60950-1									
OTHERS	CASE SIZE/WEIGHT	33.0×9.5×13.5mm [1.3×0.37×0.53 inches] (W×H×D) / 10g max	33.0×10.9×13.5mm [1.3×0.43×0.53 inches] (W×H×D) / 12g max	33.0×9.5×22.9mm [1.3×0.37×0.9 inches] (W×H×D) / 15g max	33.0×7.0×22.9mm [1.3×0.28×0.9 inches] (W×H×D) / 12g max	33.0×8.0×22.9mm [1.3×0.31×0.9 inches] (W×H×D) / 15g max	33.0×12.7×13.5mm [1.3×0.5×0.53 inches] (W×H×D) / 12g max	38.0 × 8.5 × 27.7mm [1.5 × 0.33 × 1.09 inches] (W × H × D) / 22g max	33.0×12.7×22.9mm [1.3×0.5×0.9 inches] (W×H×D) / 14g max	38.0×13.8×27.7mm [1.5×0.54×1.09 inches] (W×H×D) / 21g max	
	COOLING METHOD	Convection	/ Forced air								

*1 *2 At rated input (DC12V) and rated output (1.2V) Ta=25°C.

Output voltage is adjusted to the minimum when TRM is opened. *3

Ripple and ripple noise is measured by using measuring board with ceramic capacitor at 50mm from output pin. Drift is the change in DC output for an eight hour period after a half - hour warm - up at 25°C, with the input voltage held. *4

*5 Output voltage setting is added line regulation and load regulation and temperature regulation used resistance of the 0.5% tolerance.

*6 The start-up time when using the RC terminal is same as other BRFS.







% Tolerance : ±0.3 [±0.012] ※ Dimensions in mm, []=inches

- % Weight : 10g max
- * Terminal material : copper
- * Plating treatment of terminal
- : Lead free plating



% Tolerance : ±0.3 [±0.012]

※ Dimensions in mm, []=inches

% Weight : 12g max

% Terminal material : copper * Plating treatment of terminal

: Lead free plating









5. BRFS60S







% Tolerance : ±0.3 [±0.012]

% Dimensions in mm, []=inches

% Weight : 22g max

% Terminal material : copper

* Plating treatment of terminal

: Lead free plating





<u>6-\$3.12</u> [\$0.123]

※ Dimension is : mm [inch]



6.58 [0.259]

13.16 [0.518]

16.54 [0.651]

23.12 [0.910] 29.72 [1.170] <u>12-¢3.12</u> [¢0.123]

% Dimension is : mm [inch]

6.58 [0.259]

13.16 [0.518]

16.54 [0.651]

23.12 [0.910]

29.72 [1.170]

BRFS | CO\$EL