Dual Low Drop Out Regulator
Ceramic Capacitor Available
BA3258FP/HFP

●Description

BA3258FP/HFP is a power supply IC in which 2-output series regulators are incorporated into a power package (TO252-5/HRP-5). 2-outputs are 3.3V and 1.5V output. Each current is 1A. Ceramic capacitor is available for output.

●Features

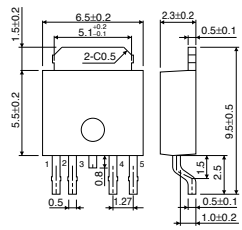
1) 3.3V/1A and 1.5V/1A
2) Output ceramic capacitor available
3) Output voltage accuracy :+/-2%
4) Built-in over-current and thermal protection circuit
5) TO252-5 package and HRP-5 package

●Applications

HDD/DVD

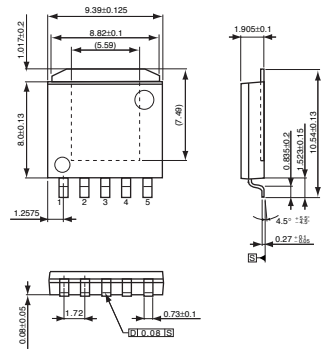
●Dimension (Unit : mm)

BA3258FP



TO252-5

BA3258HFP



HRP-5

●Absolute Maximum Ratings (Ta=25˚C)

Parameter		Symbol	Limits	Unit
Power supply voltage		Vcc	15	V
Power dissipation	HRP-5	Pd	2300 *1	mW
	TO252-5		1300 *2	
Operating temperature range		Topr	0 ~ +85	˚C
Storage temperature range		Tstg	−55 ~ +150	˚C

*1 Derating : 18.4mW/˚C for operation above Ta=25˚C PCB (70mmx70mm, t=1.6mm) glass epoxy mounting.
*2 Derating : 10.4mW/˚C for operation above Ta=25˚C PCB (70mmx70mm, t=1.6mm) glass epoxy mounting.

●Recommended Operating Conditions (Ta=25˚C)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Power supply voltage	Vcc	4.75	−	14.0	V

● Electrical characteristics (Unless otherwise noted; Ta=25˚C, Vcc=5V)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Circuit current	Ib	–	3□	5□	mA	Io1=0mA, Io2=0mA
Line regulation 1,2	ΔVLINE1,2	–	5□	15□	mV	Vcc=4.75 →14V, Io=5mA
Load regulation 1,2	ΔVLOAD1,2	–	5□	20□	mV	Io=5mA → 1A
[3.3V output]						
Output voltage	Vo1	3.234	3.300□	3.366□	V	Io1=50mA
Dropout voltage	ΔVD1	–	1.1□	1.3□	V	Io1=1A
Output current	Io1	1.0	–	–	A	
[1.5V output]						
Output voltage	Vo2	1.470	1.500□	1.530□	V	Io2=50mA
Output current	Io2	1.0	–	–	A	

● Application Circuit