

Dual Operational Amplifiers

FEATURES

- Wide range of supply voltages(3Vto32V)
- Low supply current drain independent of supply voltage
- Low input biasing current
- Low input offset voltage and offset current
- Input common-mode voltage range includes ground
- Differential input voltage range includes ground
- DC voltage gain 100 V/mV Typ
- Internally frequency compensation

Descriptions

The 358 consists of two independent,high gain,internally frequency compensated operational amplifiers which were designed sepecifically to operate from a sinfle power supply over a wide range of voltages the magnitude of the power supply voltage

Ordering Information

Part Number	Description
DP358	DIP-8, Pb free in T&R, 50 Pcs/Tube
	SOP-8, Pb free in T&R, 4000 Pcs/Reel

➤ Marking Information



DP358for product name:

DP:DeveloPer microelectronics

XXXXXX The first X represents the last year,2014 is 4;The second X represents the month,inA-L 12 letters;The third and fourth X on behalf of the date,01-31said;The last two X represents the wafer batch code

➤ ABSOLUTE MAXIMUM RATINGS

参数	参数范围	单位
Operating Temperature Range	-10°C to +85°C	°C
Storage Temperature Range:	-65°C to 150°C	°C

Electrical Characteristics

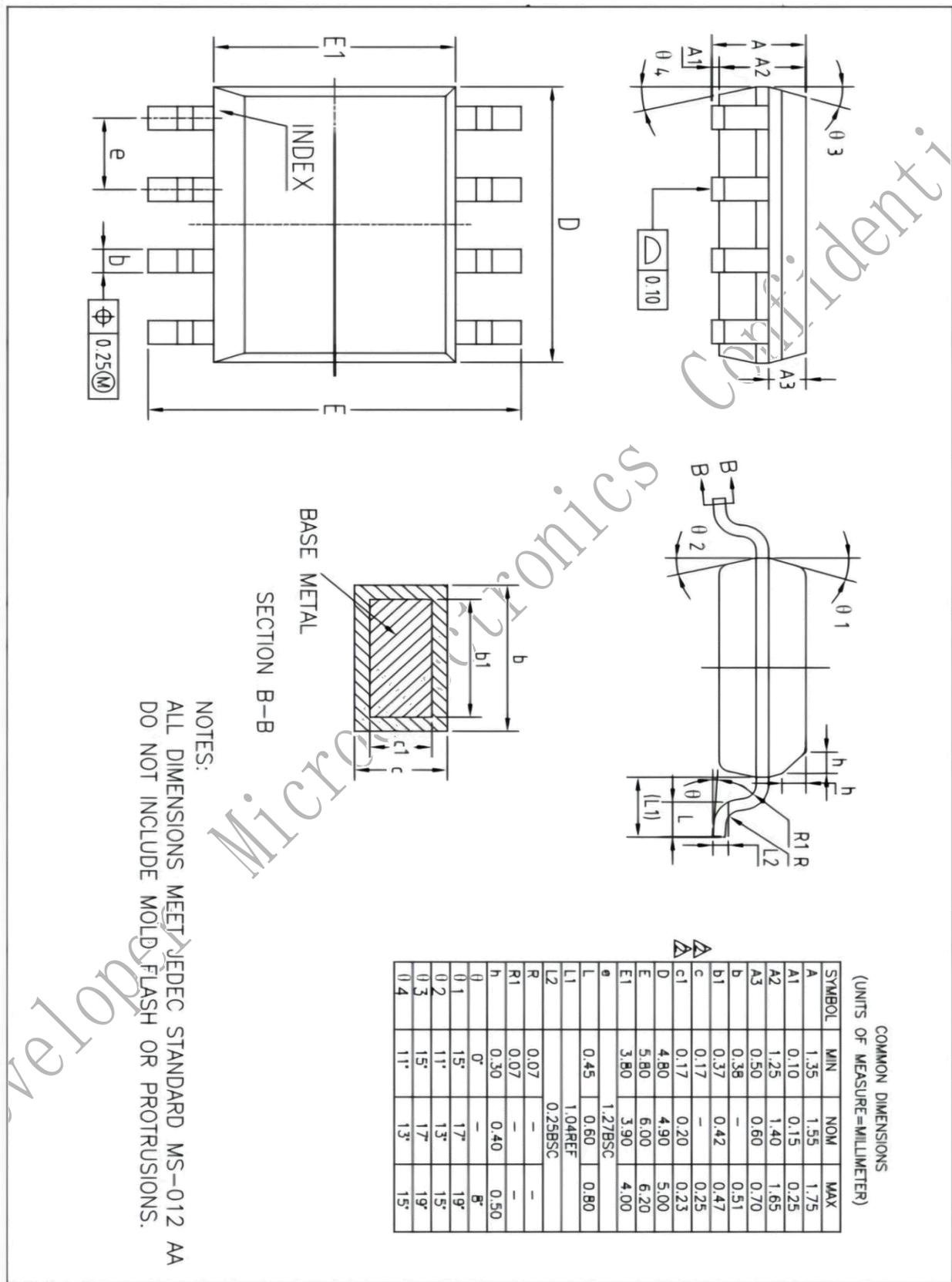
PARAMETER	TEST CONDITIONS*		358			UNIT	
			MIN	TYP	MAX		
V _{IO}	V _{CC} = 5 V to MAX, V _{ic} = V _{icr} min, V _o =1.4 V	25 °C		3	7	mV	
Input offset voltage		Full range			9		
aV _{IO}		Full range		7		uV/°C	
Average temperature coefficient of input offset voltage							
h _o	V _o =1.4 V	25 °C Full range		2	50	mA	
Input offset current							
aI _{IO}		Full range		10		pA/°C	
Average temperature coefficient of input offset current							
H _b	V _o =1.4 V	25 °C Full range		-20	-250	nA	
Input bias current							
V _{ICR}	V _{CO} = 5 V to MAX	25 °C	0 to V _{CC} -1.5			V	
Common-mode input voltage range		Full range	0 to V _{CC} - 2				
V _{OH}	R _L =2 kΩ	25 °C	V _{CC} -1.5			V	
High-level output voltage		V _{CC} = MAX, R _L =2 kΩ	Full range	26			
		V _{CC} = MAX, R _L = 10 kΩ	Full range	27	28		
V _{OL}	R _L = 10 kΩ	Full range		5	20	mV	
Low-level output voltage							
A _{vd}	V _{CC} = 15 V, V _o =1V to 11 V,	25 °C	25			V/mV	
Large-signal differential voltage amplification	R _L >2 kΩ	Full range	15	10.0			
CMRR	V _{CC} = 5 V to MAX, V _{ic} = V _{ICR} min	25 °C	65	80		dB	
Common-mode rejection ratio							
k _{svR} Supply voltage rejection ratio (A _{vCC} /A _{VIQ})	V _{CC} = 5 V to MAX	25 °C	65	10.0		dB	
V _{ol} / V _{o2}	kHz to 20 kHz	25 °C		120		dB	
Crosstalk attenuation							
I _o	V _{CC} = 15 V, M _d =1 V, V _o =0	25 °C	-20	-30		mA	
		Full range	-10				
	V _{CC} = 15 V, V _I D=- 1 v, V _o = 15 V	25 °C Full range	10	20			
Output current			5				

	$V_{ D } = -1\text{ V}, V_o = 20\text{ mV}$	25 °C	12	30		uA
bs	V_{cc} at 5 V,	25 °C		±40	±60	mA
Short-circuit output current	GND at -5V, $V_o = 0$					
Icc Supply current (two amplifiers)	$V_o = 2.5\text{ V}$, No load	Full range		0.7	1.2	mA
	$V_{cc} = \text{MAX}$,	Full range		1	2	
	$V_o = 0.5V_{cc}$, No load					

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Package Dimension



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