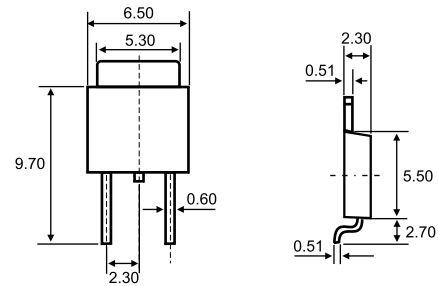


1. BASE
2. COLLECTOR
3. EMITTER

**TO-252**


Dimensions in inches and (millimeters)

**Features**

- ◇ Maximum Output current  
 $I_{OM}$ : 1 A
- ◇ Output voltage  
 $V_o$ : 5V
- ◇ Continuous total dissipation  
 $P_D$ : 1.3 W ( $T_a = 25\text{ }^\circ\text{C}$ )  
13 W ( $T_c = 25\text{ }^\circ\text{C}$ )
- ◇ 0.05k/Tube, 2k/box, 10k/cartonss

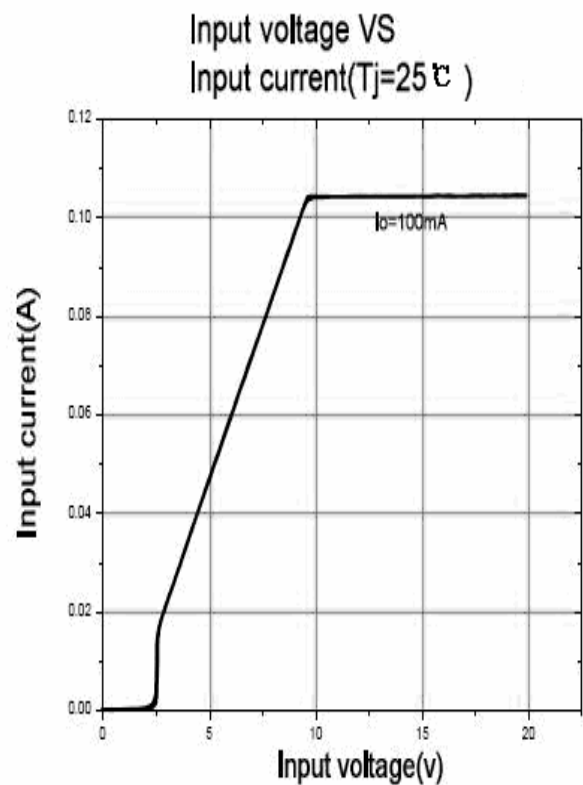
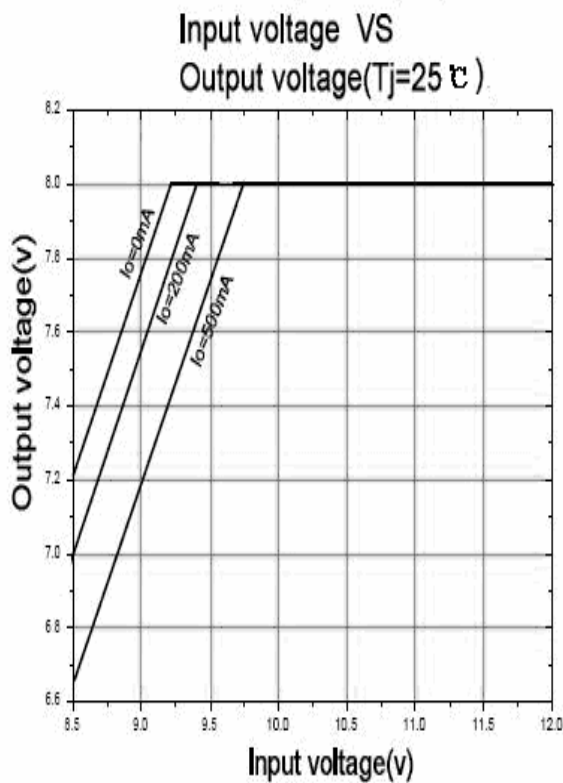
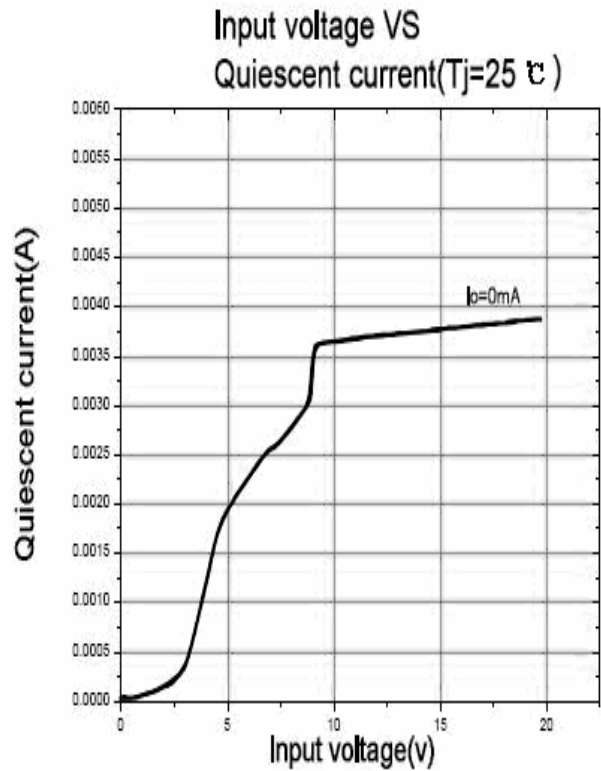
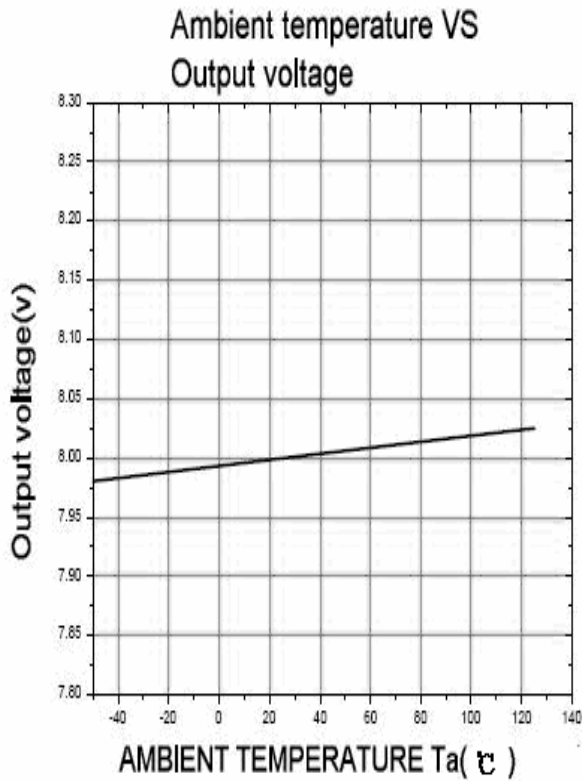
**ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)**

Parameter	Symbol	Value	Unit
Input Voltage	$V_i$	35	V
Operating Junction Temperature Range	$T_{OPR}$	-40-+85	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-50-+150	$^\circ\text{C}$

**ELECTRICAL CHARACTERISTICS ( $V_i=10\text{V}$ ,  $I_o=350\text{mA}$ ,  $C_i=0.33\mu\text{F}$ ,  $C_o=0.1\mu\text{F}$ , unless otherwise specified)**

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	$V_o$	$25\text{ }^\circ\text{C}$	4.88	5	5.12	V
		$7\text{V} \leq V_i \leq 20\text{V}$ , $I_o=5\text{mA}-350\text{mA}$ $P_o \leq 15\text{W}$	0-125 $^\circ\text{C}$	4.75	5	5.25
Load Regulation	$\Delta V_o$	$I_o=5\text{mA}-0.5\text{A}$	$25\text{ }^\circ\text{C}$	15	100	mV
		$I_o=5\text{mA}-200\text{mA}$	$25\text{ }^\circ\text{C}$	5	50	mV
Line regulation	$\Delta V_o$	$7\text{V} \leq V_i \leq 25\text{V}$ , $I_o=200\text{mA}$	$25\text{ }^\circ\text{C}$	3	100	mV
		$8\text{V} \leq V_i \leq 25\text{V}$ , $I_o=200\text{mA}$	$25\text{ }^\circ\text{C}$	1	50	mV
Quiescent Current	$I_q$	$25\text{ }^\circ\text{C}$	4.2	6	mA	
Quiescent Current Change	$\Delta I_q$	$8\text{V} \leq V_i \leq 25\text{V}$ , $I_o=200\text{mA}$	0-125 $^\circ\text{C}$		0.8	mA
	$\Delta I_q$	$5\text{mA} \leq I_o \leq 350\text{mA}$	0-125 $^\circ\text{C}$		0.5	mA
Output Noise Voltage	$V_N$	$10\text{Hz} \leq f \leq 100\text{KHz}$	$25\text{ }^\circ\text{C}$	40	200	$\mu\text{V}$
Ripple Rejection	RR	$8\text{V} \leq V_i \leq 18\text{V}$ , $f=120\text{Hz}$ , $I_o=300\text{mA}$	0-125 $^\circ\text{C}$	62	80	dB
Dropout Voltage	$V_d$	$I_o=350\text{mA}$	$25\text{ }^\circ\text{C}$	2	2.5	V
Short Circuit Current	$I_{sc}$	$V_i=10\text{V}$	$25\text{ }^\circ\text{C}$	300		mA
Peak Current	$I_{pk}$	$25\text{ }^\circ\text{C}$		0.7		A

# Typical Characteristics



LGE