

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!



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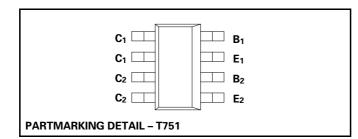


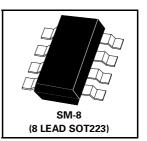


SM-8 DUAL PNP MEDIUM POWER TRANSISTORS

ISSUE 1 - AUGUST 1997

ZDT751





ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V _{CBO}	-80	V
Collector-Emitter Voltage	V _{CEO}	-60	V
Emitter-Base Voltage	V _{EBO}	-5	V
Peak Pulse Current	I _{CM}	-6	Α
Continuous Collector Current	I _C	-2	Α
Operating and Storage Temperature Range	T _j :T _{stg}	-55 to +150	°C

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	VALUE	UNIT
Total Power Dissipation at T _{amb} = 25°C* Any single die "on" Both die "on" equally	P _{tot}	2.25 2.75	W W
Derate above 25°C* Any single die "on" Both die "on" equally		18 22	mW/ °C mW/ °C
Thermal Resistance - Junction to Ambient* Any single die "on" Both die "on" equally		55.6 45.5	°C/W °C/W

^{*} The power which can be dissipated assuming the device is mounted in a typical manner on a PCB with copper equal to 2 inches square.



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ELECTRICAL CHARACTERISTICS (at T_{amb} = 25°C unless otherwise stated).

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PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.	
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-80			V	I _C =-100μA, I _E =0	
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-60			V	I _C =-10mA, I _B =0*	
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-5			V	I _E =-100μA, I _C =0	
Collector Cutoff Current	I _{CBO}			-0.1 -10	μ Α μ Α	V _{CB} =-60V V _{CB} =-60V,T _{amb} =100°C	
Emitter Cutoff Current	I _{EBO}			-0.1	μΑ	V _{EB} =-4V, I _E =0	
Collector-Emitter Saturation Voltage	V _{CE(sat)}		-0.15 -0.28	-0.3 -0.5	V V	I _C =1A, I _B =-100mA* I _C =2A, I _B =-200mA*	
Base-Emitter Saturation Voltage	V _{BE(sat)}		-0.9	-1.25	V	I _C =1A, I _B =-100mA*	
Base-Emitter Turn-On Voltage	V _{BE(on)}		-0.8	-1	V	I _C =-1A, V _{CE} =-2V*	
Static Forward Current Transfer Ratio	h _{FE}	70 100 80 40	200 200 170 80	300		I _C =-50mA, V _{CE} =-2V* I _C =-500mA, V _{CE} =-2V* I _C =-1A, V _{CE} =-2V* I _C =-2A, V _{CE} =-2V*	
Transition Frequency	f _T	100	140		MHz	I _C =-100mA, V _{CE} =-5V f=100MHz	
Output Capacitance	C _{obo}			30	pF	V _{CB} =-10V f=1MHz	
Switching Times	t _{on}		40		ns	I _C =-500mA, V _{CC} =-10V I _{B 1} =I _{B2} =-50mA	
	t _{off}		450		ns	181-182- 00111A	

^{*}Measured under pulsed conditions. Pulse width=300µs. Duty cycle ≤ 2%

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TYPICAL CHARACTERISTICS

