



LOW VOLTAGE HIGH CURRENT TRANSISTOR

2

FEATURES

- *High current output up to 5A
- *Collector-Emitter voltage up to 20V

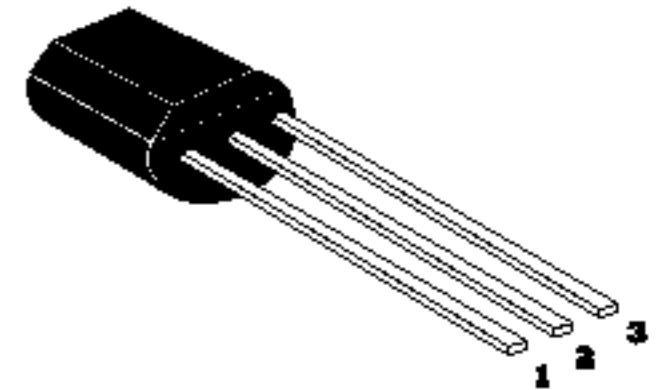
APPLICATIONS

- *Audio power amplifier
- *Flash unit of camera
- *Switching circuit

ABSOLUTE MAXIMUM RATINGS at Tamb=25°C

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	Vcbo	40	V
Collector-Emitter Voltage	Vceo	20	V
Emitter-Base Voltage	Vebo	7	V
Collector Current	Ic	5	A
Collector dissipation	Pc	0.75	W
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-55~150	°C

Package: TO-92



PIN: STYLE	1	2	3
	E	C	B
NO.1	E	C	B

ELECTRICAL CHARACTERISTICS at Tamb=25°C

Characteristic	Symbol	Min	Typ	Max	Unit	Test Conditions
Collector-Base Breakdown Voltage	BVcbo	40			V	Ic=100uA Ie=0
Collector-Emitter Breakdown Voltage	BVceo	20			V	Ic=1mA Ib=0
Emitter-Base Breakdown Voltage	BVebo	7			V	Ie=10uA Ic=0
Collector Cutoff Current	Icbo			100	nA	Vcb=10V Ie=0
Emitter Cutoff Current	Iebo			100	nA	Veb=7V Ic=0
DC Current Gain *	Hfe1		200			Vce=2V Ic=1mA
	Hfe2	180		800		Vce=2V Ic=0.5A
	Hfe3	120				Vce=2V Ic=2A
Collector-Emitter Saturation Voltage*	Vce(sat)			1.0	V	Ic=3A Ib=0.1A
Current Gain-Bandwidth Product	fT		150		MHz	Vce=6V Ic=50mA
Output Capacitance	Cob			50	PF	Vcb=20V Ie=0 f=1MHz

NOTE: * SINGLE PULSE TEST

HFE CLASSIFICATION

Classification	Q	R	S
Hfe2	180-380	340-600	560-800