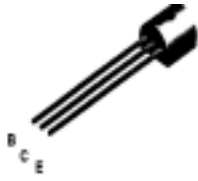


## 5.0A



TO-92

- AF OUTPUT AMPLIFIER
- FOR DC-DC CONVERTER
- FOR CAMERA ELECTRONIC FLASH UNIT
- HIGH PERFORMANCE AT LOW SUPPLY VOLTAGE
- LOW VCE(SAT)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS ( Ta=25 )

PARAMETERS	SYMBOL	MIN	TYP	MAX	UNIT	CONDITION
Collector-Emitter Breakdown Voltage	BV <sub>ceo</sub>	20			V	I <sub>c</sub> =1mA
Collector-Base Breakdown Voltage	BV <sub>cb0</sub>	40			V	I <sub>c</sub> =5 μA
Emitter-Base Breakdown Voltage	BV <sub>eb0</sub>	6			V	I <sub>e</sub> =50 μA
Collector-Base Leakage	I <sub>cbo</sub>			0.1	μA	V <sub>cb</sub> =30V
Emitter-Base Leakage	I <sub>ebo</sub>			0.1	μA	V <sub>eb</sub> =5V
Collector-Emitter Saturation Voltage	V <sub>ce ( sat )</sub>			0.5	V	I <sub>c</sub> =3A, I <sub>b</sub> =0.1A
DC Current Gain	H <sub>fe1</sub> H <sub>fe2</sub>	340 180		600		V <sub>ce</sub> =2V, I <sub>c</sub> =0.5A V <sub>ce</sub> =2V, I <sub>c</sub> =4A
Collector Current	I <sub>c</sub>			5	A	
Peak Collector Current	I <sub>cp</sub>			8	A(Pulse)	
Current Gain Bandwidth	f <sub>r</sub>		170		MHz	V <sub>cb</sub> =6V, I <sub>c</sub> =50mA
Output Capacitance	C <sub>ob</sub>			32	pF	V <sub>cb</sub> =20V, I <sub>e</sub> =0, f=1MHz
Power Dissipation	P <sub>c</sub>			0.75	W	
Junction Temperature	T <sub>j</sub>			150		
Storage Temperature	T <sub>stg</sub>	-55		150		

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