

3.0A

- AF OUTPUT AMPLIFIER
- FOR DC-DC CONVERTER
- FOR CAMERA MOTOR DRIVER

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS ($T_a=25$)

PARAMETERS	SYMBOL	MIN	TYP	MAX	UNIT	CONDITION
Collector-Emitter Breakdown Voltage	BV_{ceo}	30			V	$I_c=1mA$
Collector-Base Breakdown Voltage	BV_{cbo}	40			V	$I_c=5\mu A$
Emitter-Base Breakdown Voltage	BV_{ebo}	5			V	$I_e=50\mu A$
Collector-Base Leakage	I_{cbo}			0.1	μA	$V_{cb}=10V$
Emitter-Base Leakage	I_{ebo}			0.1	μA	$V_{eb}=5V$
Collector-Emitter Saturation Voltage	$V_{ce(sat)}$			0.5	V	$I_c=2A, I_b=0.1A$
DC Current Gain	H_{fe1}	80		390		$V_{ce}=2V, I_c=0.5A$
Collector Current	I_c			3	A	
Peak Collector Current	I_{cp}			5	A(Pulse)	
Current Gain Bandwidth	f_T		50		MHz	$V_{cb}=5V, I_c=0.1A$
Output Capacitance	C_{ob}			50	pF	$V_{cb}=10V, I_e=0, f=1MHz$
Power Dissipation	P_c			1.25	W	
Junction Temperature	T_j			150		
Storage Temperature	T_{stg}	-55		150		

Classification of H_{fe}

Rank	R	O	Y
Range	80-160	100-200	170-390

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