

3.0A



SOT-89

1. Base
2. Collector
3. Emitter

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

PARAMETERS	SYMBOL	MIN	TYP	MAX	UNIT	CONDITION
Collector-Emitter Breakdown Voltage	BV_{ceo}	-20			V	$I_c=1\text{mA}$
Collector-Base Breakdown Voltage	BV_{cbo}	-20			V	$I_c=5\mu\text{A}$
Emitter-Base Breakdown Voltage	BV_{ebo}	-6			V	$I_e=50\mu\text{A}$
Collector-Base Leakage	I_{cbo}			0.1	μA	$V_{cb}=-10\text{V}$
Emitter-Base Leakage	I_{ebo}			0.1	μA	$V_{eb}=-5\text{V}$
Collector-Emitter Saturation Voltage	$V_{ce(sat)}$			-0.5	V	$I_c=2\text{A}$ $I_b=0.1\text{A}$
DC Current Gain	H_{fe1}	80		390		$V_{ce}=-2\text{V}, I_c=0.5\text{A}$
Collector Current	I_c			3	A	
Peak Collector Current	I_{cp}			5	A(Pulse)	
Current Gain Bandwidth	f_r		240		MHz	$V_{cb}=-2\text{V}, I_c=0.5\text{A}$
Output Capacitance	C_{ob}			50	pF	$V_{cb}=-10\text{V}, I_e=0, f=1\text{MHz}$
Power Dissipation	P_c			0.75	W	
Junction Temperature	T_j			150		
Storage Temperature	T_{stg}	-55		150		

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