

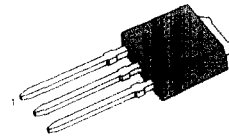
**CAMERA FLASH APPLICATIONS
MEDIUM POWER AMPLIFIER**

- $h_{FE} = 100\sim 320$ ($V_{CE} = -2V$, $I_C = -0.5V$)
- $h_{FE} = 70(\text{Min})$ ($V_{CE} = -2V$, $I_C = -4A$)
- Low Saturation Voltage: $V_{CE(\text{sat})} = -1V$ (Max)

ABSOLUTE MAXIMUM RATINGS

Characteristic	Symbol	Rating	Unit
Collector Base Voltage	V_{CBO}	- 35	V
Collector Emitter Voltage	V_{CEO}	- 20	V
Emitter Base Voltage	V_{EBO}	- 8	V
Collector Current (DC)	I_C	- 5	A
Collector Current (Pulse)	I_C	- 8	A
Collector Dissipation ($T_C=25^\circ\text{C}$)	P_C	10	W
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{STG}	- 55 ~ 150	$^\circ\text{C}$

I-PAK



1. Base 2. Collector 3. Emitter

3

ELECTRICAL CHARACTERISTICS ($T_C = 25^\circ\text{C}$)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector Emitter Breakdown Voltage	BV_{CEO}	$I_C = -10\text{mA}$, $I_B = 0$	- 20			V
Emitter Base Breakdown Voltage	BV_{EBO}	$I_E = -1\text{mA}$, $I_C = 0$	- 8			V
Collector Cutoff Current	I_{CBO}	$V_{CB} = -35V$, $I_E = 0$			- 100	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = -8V$, $I_C = 0$			- 100	μA
DC Current Gain	h_{FE1}	$V_{CE} = -2V$, $I_C = -0.5A$	100		320	
	h_{FE2}	$V_{CE} = -2V$, $I_C = -4A$	70			
Collector Emitter Saturation Voltage	$V_{CE(\text{sat})}$	$I_C = -4A$, $I_B = -0.1A$			- 1	V
Base Emitter On Voltage	$V_{BE(\text{on})}$	$V_{CE} = -2V$, $I_C = -4A$			- 1.5	V
Current Gain Bandwidth Product	f_T	$V_{CE} = -2V$, $I_C = -0.5A$		180		MHz
Collector Output Capacitance	C_{OB}	$V_{CB} = -10V$, $f = 1\text{MHz}$		50		pF

 h_{FE} (1) CLASSIFICATION

Classification	O	Y
h_{FE1}	100~200	160~320

