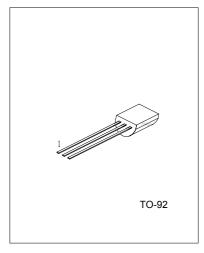
# **FEATURES**

- \* Collector-Base Voltage: V(BR)<sub>CBO</sub>=600V
- \* Collector Current: I<sub>C</sub>=0.2A



1: BASE 2: COLLECTOR 3: EMITTER

## ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	VCBO	600	V
Collector-emitter voltage	VCEO	400	V
Emitter-base voltage	VEBO	7	V
Collector current	Ic	200	mA
Collector power dissipation	Pc	750	mW
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-55 ~ +150	°C

# ELECTRICAL CHARACTERISTICS (Tc=25°C)

22201110112 01111101100 (10-20 0)									
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT			
Collector-Base Breakdown Voltage	V(BR) <sub>CBO</sub>	I <sub>C</sub> =100μA, IE=0	600			V			
Collector-Emitter Breakdown Voltage	V(BR) <sub>CEO</sub>	Ic=1mA, IB=0	400			V			
Emitter-Base Breakdown Voltage	V(BR) <sub>EBO</sub>	I <sub>E</sub> =100μA, IC=0	7			V			
Collector Cut-off Current	I <sub>CBO</sub>	V <sub>CB</sub> =600V, I <sub>E</sub> =0			100	μА			
Collector Cut-off Current	I <sub>CEO</sub>	VcE=400V, I <sub>B</sub> =0			200	μА			
Emitter Cut-off Current	I <sub>EBO</sub>	VEB=7V, I <sub>C</sub> =0			100	μА			
DC current gain	hFE(1)	Vce=20V, Ic=20mA	10		70				
	hFE(2)	VcE=10V, Ic=0.25mA	5						
Collector-emitter saturation voltage	Vce(sat)	Ic=50mA, I <sub>B</sub> =10mA			0.5	V			
Base-emitter Saturation Voltage	V <sub>BE</sub> (sat)	Ic=50mA, I <sub>B</sub> =10mA			1.2	V			
Base-emitter Voltage	VBE	I <sub>E</sub> =100mA			1.1	V			
Transition Frequency	f <sub>T</sub>	V <sub>CE</sub> =20V, Ic=20mA, f=1MHz	8			MHz			
Fall Time	t <sub>F</sub>	Ic=50mA, I <sub>B1</sub> =-I <sub>B2</sub> =5mA,			0.3	μS			
Storage Time	ts	Vcc=45V			1.5	μS			

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## **CLASSIFICATION OF hFE**

	RANK	Α	В	С	D	Е	F	G	Η	_	J	K	L
Ī	RANGE	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70

### TYPICAL CHARACTERISTICS

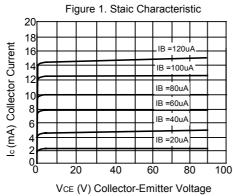


Figure 3. Base-Emitter Saturation Voltage

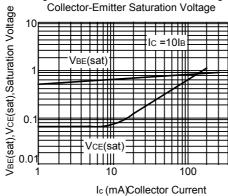


Figure 2. DC Current Gain

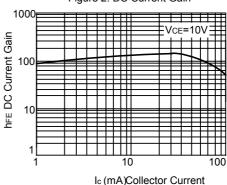
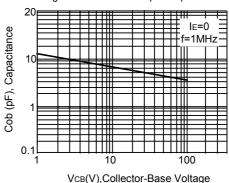


Figure 4. Collector Output Capacitance



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