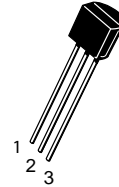


RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

TO-92



1. EMITTER
2. COLLECTOR
3. BASE

FEATURES

MAXIMUM RATINGS* T_A=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	35	V
I _C	Collector Current -Continuous	0.8	A
P _{CM}	Power Dissipation	0.6	W
T _J , T _{stg}	Junction and Storage Temperature	-55-150	°C

ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V(BR) _{CBO}	I _C = 0.1mA , I _E =0	35			V
Collector-emitter breakdown voltage	V(BR) _{CEO}	I _C = 10 mA , I _B =0	30			V
Emitter-base breakdown voltage	V(BR) _{EBO}	I _E =0.1mA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} = 35V , I _E =0			0.1	µA
Collector cut-off current	I _{CEO}	V _{CE} = 25V , I _B =0			0.1	µA
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V , I _C =0			0.1	µA
DC current gain	h _{FE}	V _{CE} =1 V, I _C = 100mA	100		320	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 500 mA, I _B = 20 mA			0.5	V
Base-emitter voltage	V _{BE}	V _{CE} = 1V, I _C = 10mA			0.8	V
Transition frequency	f _T	V _{CE} = 5 V, I _C = 10mA	100			MHz

CLASSIFICATION OF h_{FE}

Rank	O	Y
Range	100-200	160-320

