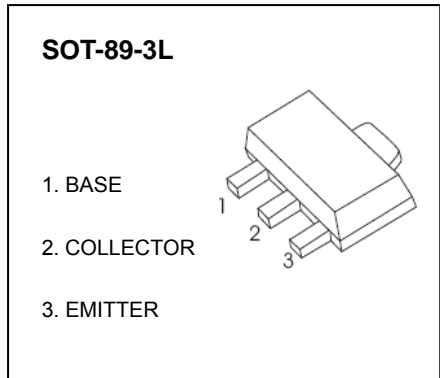


SOT-89-3L Plastic-Encapsulate Transistors

KTC4376 TRANSISTOR (NPN)

FEATURES

- Small Flat Package
- High Current Application
- Complementary to KTA1664



MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	35	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current	800	mA
P _C	Collector Power Dissipation	500	mW
R _{θJA}	Thermal Resistance From Junction To Ambient	250	°C/W
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~+150	°C

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =1mA, I _E =0	35			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =10mA, I _B =0	30			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =1mA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =35V, I _E =0			100	nA
Emitter cut-off current	I _{EBO}	V _{EB} =5V, I _C =0			100	nA
DC current gain	h _{FE(1)}	V _{CE} =1V, I _C =100mA	100		320	
	h _{FE(2)}	V _{CE} =1V, I _C =700mA	35			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =500mA, I _B =20mA			0.5	V
Base-emitter voltage	V _{BE}	V _{CE} =1V, I _C =10mA	0.5		0.8	V
Collector output capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz		13		pF
Transition frequency	f _T	V _{CE} =5V, I _C =10mA		120		MHz

CLASSIFICATION OF h_{FE(1)}

RANK	O	Y
RANGE	100 - 200	160 - 320
MARKING	PO	PY