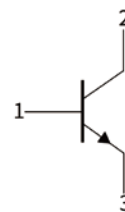


Features

- Small Flat Package
- General Purpose Application



SOT-89-3L



Equivalent Circuit

Absolute Maximum Ratings($T_A=25^{\circ}\text{C}$)

Symbol	Parameter	Value	Unit
V_{CB0}	Collector-Base Voltage	80	V
V_{CE0}	Collector-Emitter Voltage	80	V
V_{EB0}	Emitter-Base Voltage	5	V
I_C	Collector Current	0.4	A
P_C	Collector Power Dissipation	500	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	250	$^{\circ}\text{C}/\text{W}$
T_J, T_{stg}	Operation Junction And Storage Temperature Range	-55 ~ +150	$^{\circ}\text{C}$

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

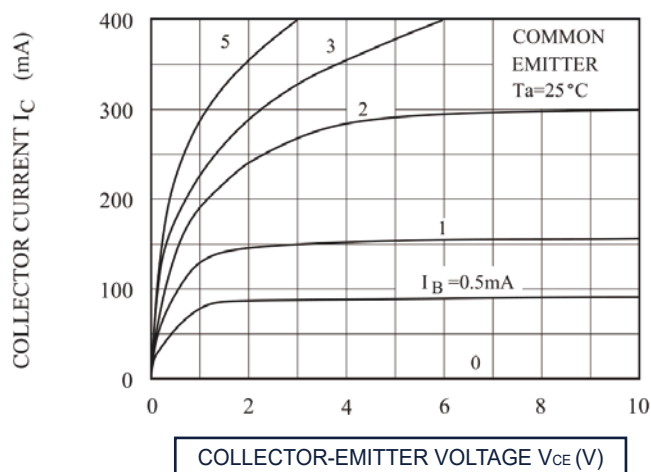
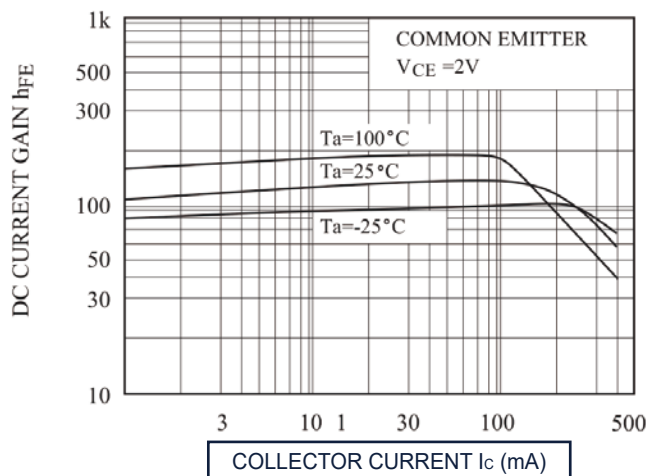
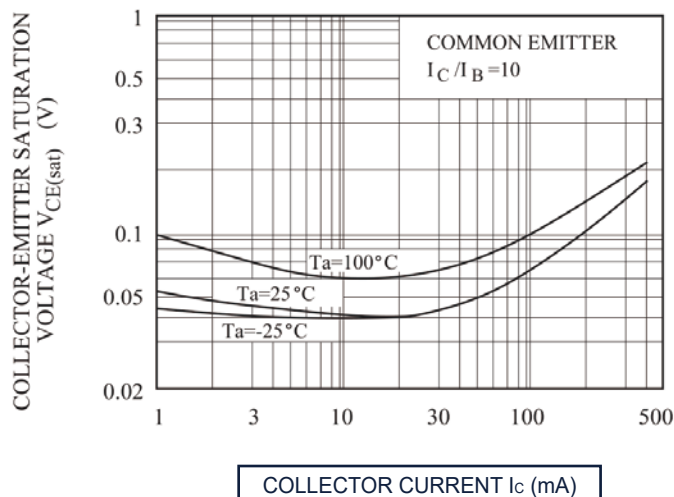
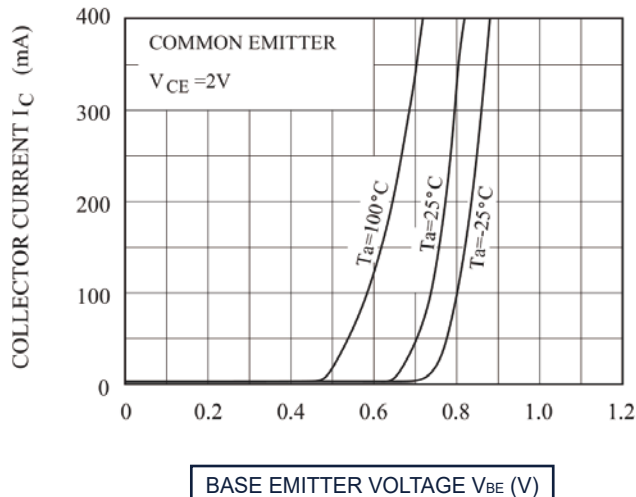
Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C=1\text{mA}, I_E=0$	80			V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C=10\text{mA}, I_B=0$	80			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E=1\text{mA}, I_C=0$	5			V
I_{CBO}	Collector cut-off current	$V_{CB}=80\text{V}, I_E=0$			100	nA
I_{EBO}	Emitter cut-off current	$V_{EB}=5\text{V}, I_C=0$			100	nA
h_{FE}	DC current gain	$V_{CE}=2\text{V}, I_C=50\text{mA}$	70		240	
		$V_{CE}=2\text{V}, I_C=200\text{mA}$	50			
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C=200\text{mA}, I_B=20\text{mA}$			0.4	V
V_{BE}	Base-emitter voltage	$V_{CE}=2\text{V}, I_C=5\text{mA}$	0.55		0.8	V
C_{ob}	Collector output capacitance	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$		10		pF
f_T	Transition frequency	$V_{CE}=10\text{V}, I_C=10\text{mA}$		100		MHz

Ordering information

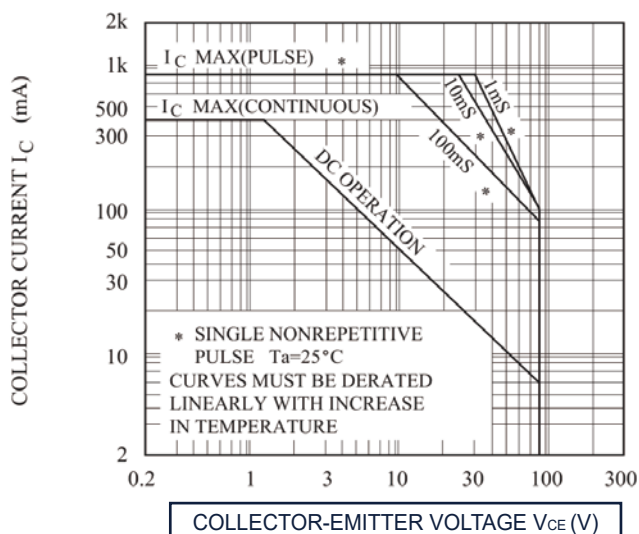
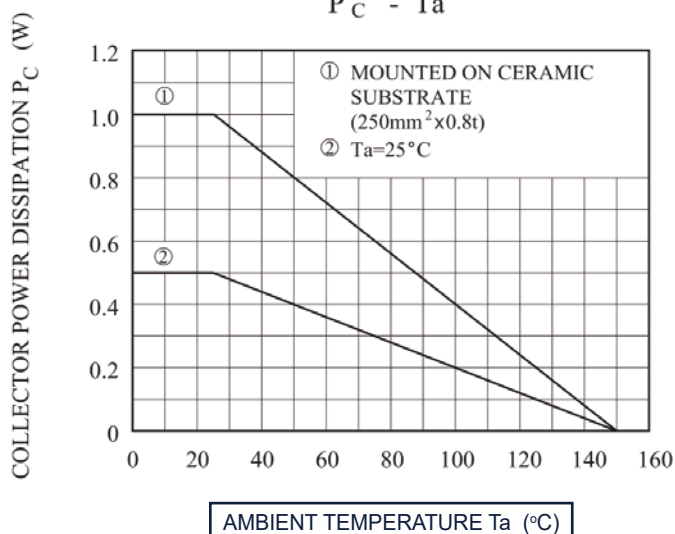
Product ID	Pack	Naming rule	Marking	$h_{FE}(1)$	Qty(PCS)
KTC4374	SOT-89-3L	KTC4374 产品名称 product name	EO	70-140	1000
			EY	120-240	



Typical Characteristics

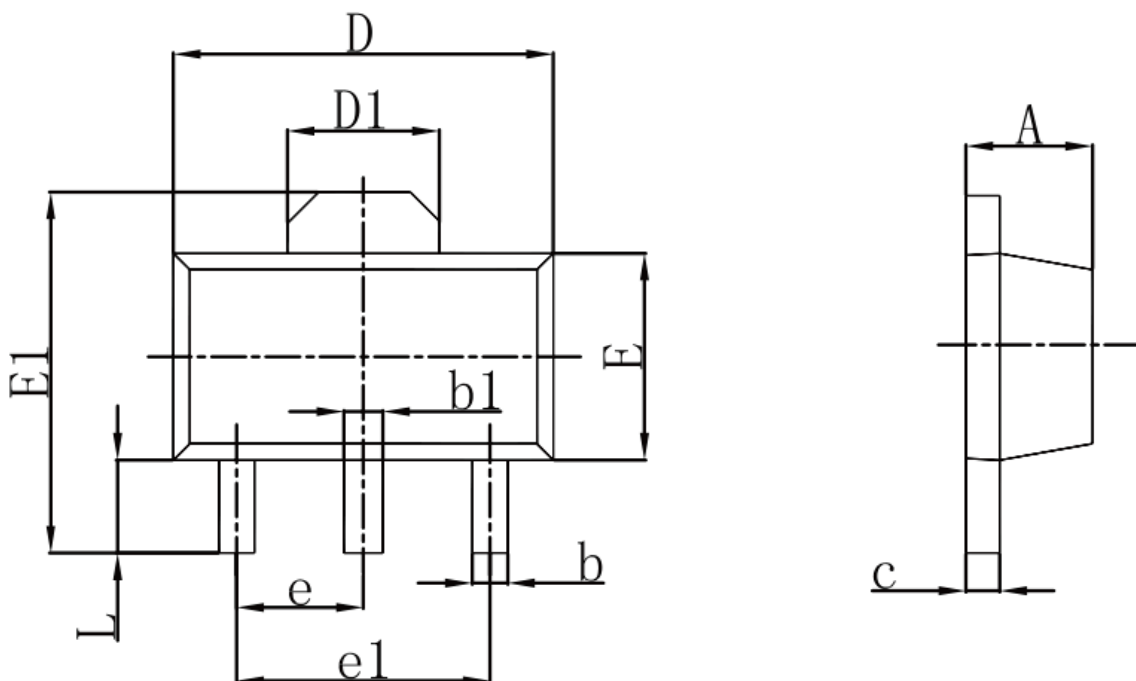
 $I_C - V_{CE}$  $h_{FE} - I_C$  $V_{CE(sat)} - I_C$  $I_C - V_{BE}$ 

SAFE OPERATING AREA

 $P_C - T_a$ 



SOT-89-3L Package Outline Dimensions



Symbol	Dimensions in Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.400	1.600	0.055	0.063
b	0.320	0.520	0.013	0.020
b1	0.400	0.580	0.016	0.023
c	0.350	0.440	0.014	0.017
D	4.400	4.600	0.173	0.181
D1	1.550 REF.		0.061 REF.	
E	2.300	2.600	0.091	0.102
E1	3.940	4.250	0.155	0.167
e	1.500 TYP.		0.060 TYP.	
e1	3.000 TYP.		0.118 TYP.	
L	0.900	1.200	0.035	0.047