





Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 (818) 701-4939 Fax:

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Complementary to KTA2014 Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

Symbol	Rating	Rating	Unit
V _{CEO}	Collector-Emitter Voltage	50	V
V _{CBO}	Collector-Base Voltage	60	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current	150	mA
Pc	Collector power dissipation	100	mW
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25 $^{\circ}$ C Unless Otherwise Specified

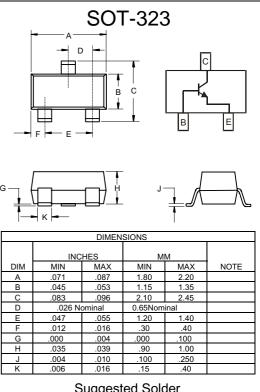
Symbol	Parameter	Min	Тур	Max	Units
OFF CHARA	CTERISTICS				
I _{CBO}	Collector Cutoff Current (V _{CB} = 60Vdc)			100	nAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} = 5.0Vdc)			100	nAdc
ON CHARA	CTERISTICS				
BV _{CBO}	Collector-base breakdown voltage (I _c =100µAdc)	60			Vdc
BV _{CEO}	Collector-emitter breakdown voltage (I _c = 1mAdc)	50			Vdc
BV _{EBO}	Emitter-base breakdown voltage (I _E =100µAdc)	5			Vdc
h _{FE}	DC Current Gain (I _c =2mAdc, V _{ce} = 6.0Vdc)	70		700	
V _{CE(sat)}	Collector Saturation Voltage (I _C =100mAdc, I _B =10.0mAdc)			0.25	Vdc
C _{ob}	Output Capacitance (V _{CE} = 10.0Vdc, I _E =0, f=1.0MHz)			3.5	pF
f⊤	Gain Bandwidth product (V _{CE} =10Vdc, I _C =1mAdc)		80		MHz

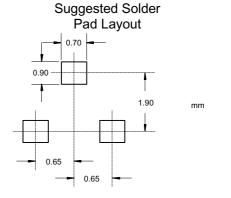
hFE **CLASSIFICATION**

Rank	0	Y	GR	BL
Marking	LO	LY	LGR	LBL
Range	70-140	120-240	200-400	350-700

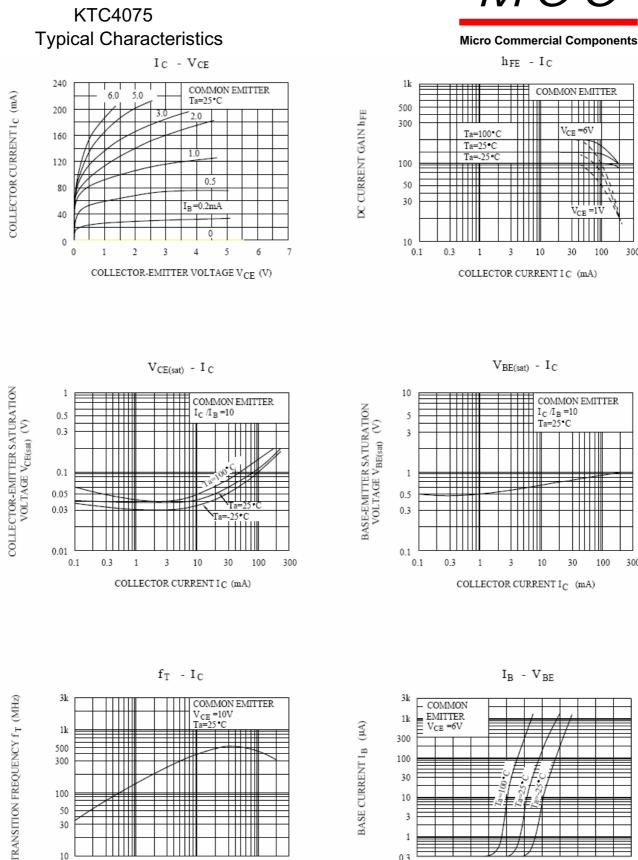
KTC4075-O KTC4075-Y **KTC4075-GR KTC4075-BL**

NPN **Plastic-Encapsulate Transistors**





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2013/09/24

300

Revision:C

10

0.1

0.3

1

3

10

COLLECTOR CURRENT IC (mA)

30

100

2 of 4

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300

0.3

0

0.2

0.4

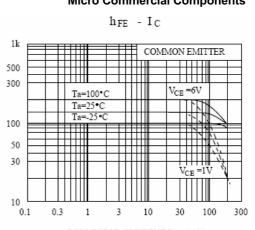
0.6

BASE-EMITTER VOLTAGE V BE (V)

0.8

1.0

1.2



$\cdot M \cdot C \cdot C \cdot$

KTC4075

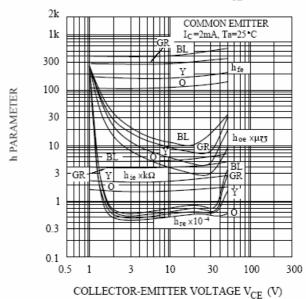
h PARAMETER

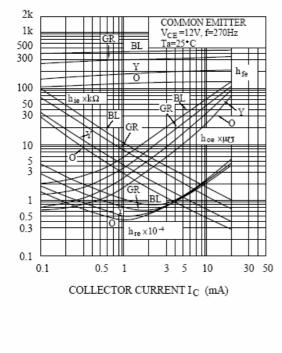
Typical Characteristics



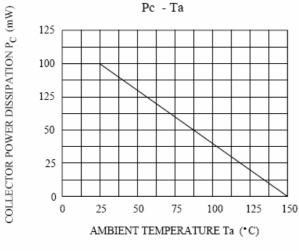
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h PARAMETER - VCE





h PARAMETER - IC



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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