

Features

- Complementary to KTC3875
- Low Noise
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

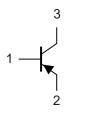
Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 833°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-50	V
Collector-Emitter Voltage	V _{CEO}	-50	V
Emitter-Base Voltage	V _{EBO}	-5	V
Continuous Collector Current	Ι _C	-150	mA
Power Dissipation	PD	150	mW

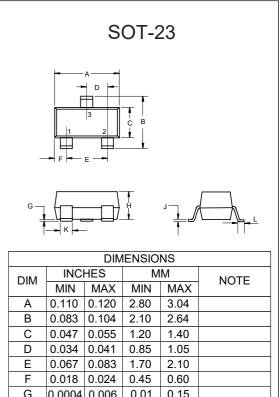
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure



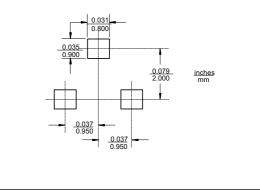


PNP Silicon Epitaxial Transistors



0.0004 0.006 0.15 G 0.01 н 0.035 0.043 0.90 1.10 J 0.003 0.007 0.08 0.18 Κ 0.012 0.020 0.30 0.51 0.007 0.020 0.20 0.50 L

Suggested Solder Pad Layout





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

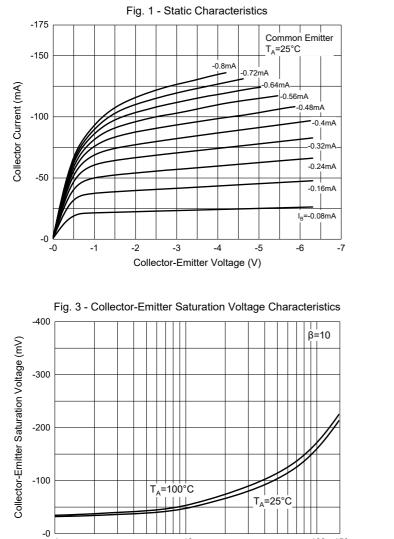
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-50			V	Ι _c =-100μΑ, Ι _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-50			V	I _C =-1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-5			V	I _E =-100μΑ, I _C =0
Collector-Base Cutoff Current	I _{CBO}			-100	nA	V _{CB} =-50V, I _E =0
Emitter-Base Cutoff Current	I _{EBO}			-100	nA	V_{EB} =-5V, I_{C} =0
DC Current Gain	h _{FE}	70		400		V _{CE} =-6V, I _C =-2mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.3	V	I _C =-100mA, I _B =-10mA
Transition Frequency	f _T	80			MHz	V _{CE} =-10V,I _C =-1mA
Collector-Base Capacitance	C _{ob}			7	pF	V _{CB} =-10V,I _E =0,f=1MHz

Classification of \mathbf{h}_{FE}

Rank	0	Y	GR
Range	70-140	120-240	200-400
Marking	ASO	ASY	ASG

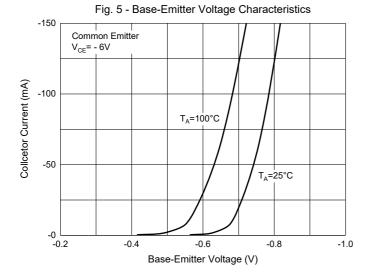


Curve Characteristics



Collector Current (mA)

-10



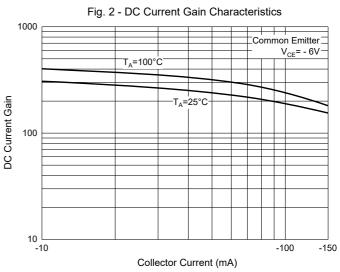
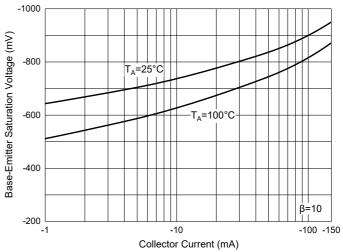
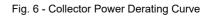
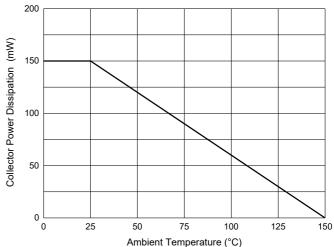


Fig. 4 - Base-Emitter Saturation Voltage Characteristics







-1

-100 -150



Ordering Information

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

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