

Features

- Switching Applications
- 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)

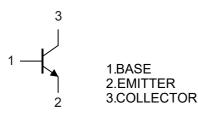
Maximum Ratings @ 25°C Unless Otherwise Specified

- 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

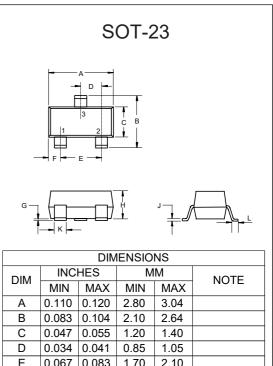
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	35	V
Collector-Emitter Voltage	V _{CEO}	30	V
Emitter-Base Voltage	V _{EBO}	5	V
Continuous Collector Current	I _C	500	mA
Power Dissipation	PD	150	mW

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

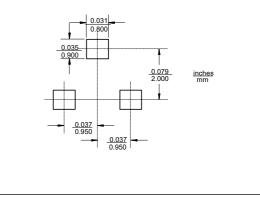






D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.012	0.020	0.30	0.51	
L	0.007	0.020	0.20	0.50	

Suggested Solder Pad Layout





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

Parameter	Symbol	Min	Тур	Мах	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	35			V	I _C =100μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	30			V	I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	5			V	I _E =100μA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			0.1	μA	V _{CB} =35V, I _E =0
Emitter-Base Cutoff Current	I _{EBO}			0.1	μA	V_{EB} =5V, I _C =0
DC Current Gain	h _{FE(1)}	70		400		V _{CE} =1V, I _C =100mA
	h _{FE(2)}	25				V _{CE} =6V, I _C =400mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.3	V	I _C =100mA, I _B =10mA
Base-Emitter Voltage	V _{BE}			1.0	V	V _{CE} =1V, I _C =100mA
Transition Frequency	f _T		300		MHz	V _{CE} =6V,I _C =20mA
Collector Output Capacitance	C _{ob}		7		pF	V _{CB} =6V,I _E =0,f=1MHz

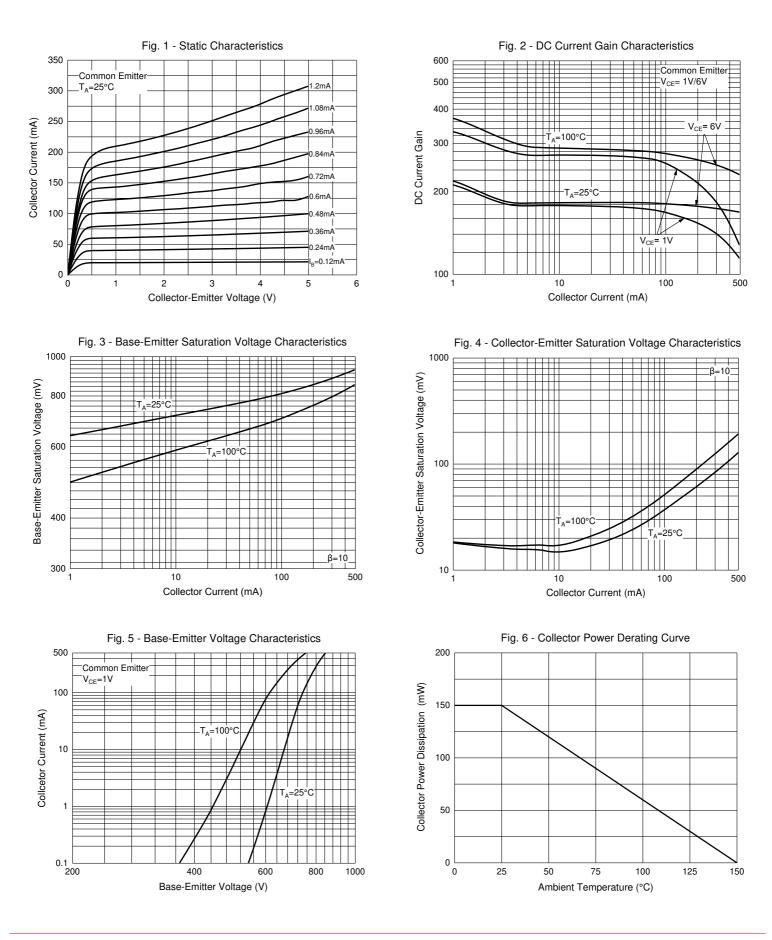
Classification of \mathbf{h}_{FE}

Rank	0	Y	GR
Range ₍₁₎	70-140	120-240	200-400
Range ₍₂₎	25(min.)	40(min.)	70(min.)
Marking	WO	WY	WG

2/4



Curve Characteristics





Ordering Information

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

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