

Features

- 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)

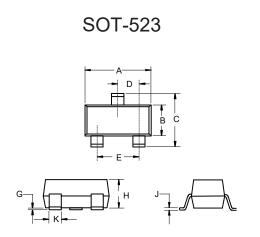


Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

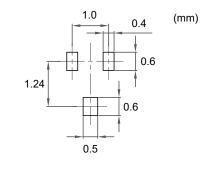
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	75	V
Collector-Emitter Voltage	V _{CEO}	40	V
Emitter-Base Voltage	V _{EBO}	6	V
Collector Current	I _C	600	mA
Collector Power Dissipation	Pc	150	mW

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



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.059	0.067	1.50	1.70	
В	0.030	0.033	0.75	0.85	
С	0.057	0.069	1.45	1.75	
D	0.020		0.50		TYP.
E	0.035	0.043	0.90	1.10	
G	0.000	0.004	0.00	0.10	
Н	0.024	0.031	0.60	0.80	
J	0.004	0.008	0.10	0.20	
K	0.006	0.014	0.15	0.35	

Suggested Solder Pad Layout



Internal Structure



Marking: 1P



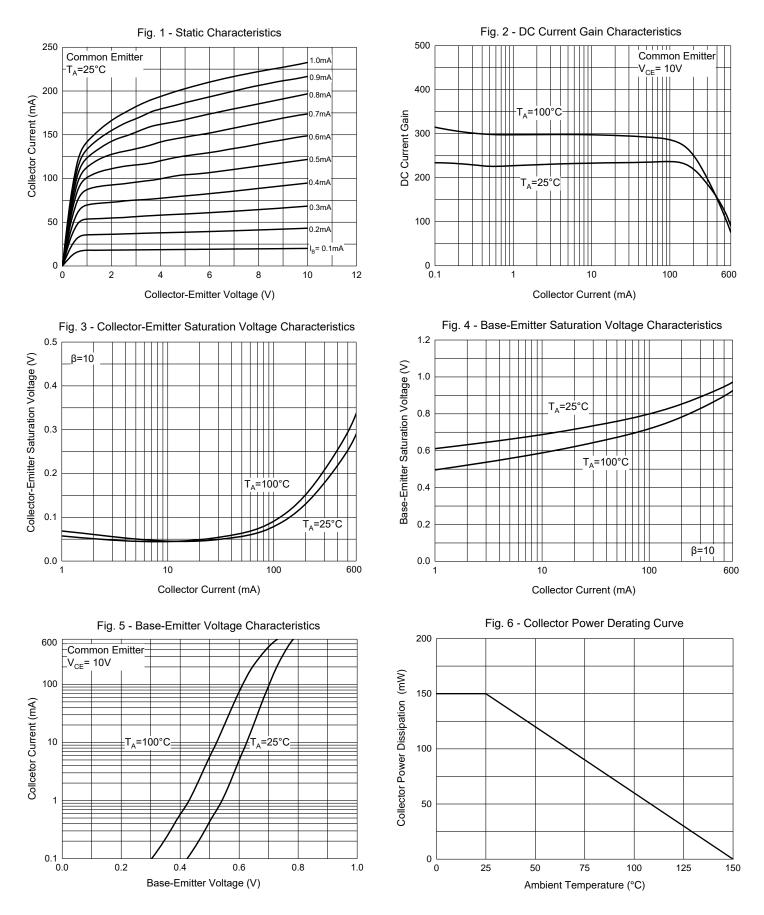
Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	75			V	I _C =10μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	40			V	I _C =10mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	6			V	I _E =10μA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			100	nA	$V_{CB}=70V, I_{E}=0$
Collector Cutoff Current	I _{CEX}			10	nA	V _{CE} =Î €V,X _{BÒ} =HX
Emitter-Base Cutoff Current	I _{EBO}			100	nA	$V_{EB}=3V$, $I_{C}=0$
DC Current Gain ^(Note2)	h _{FE(1)}	35				V _{CE} =10V, I _C =0.1mA
	h _{FE(2)}	50				V _{CE} =10V, I _C =1mA
	h _{FE(3)}	75				V _{CE} =10V, I _C =10mA
	h _{FE(4)}	100		300		V _{CE} =10V, I _C =150mA
	h _{FE(5)}	40				V _{CE} =10V, I _C =500mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.3	V	I _C =150mA, I _B =15mA
				1.0	V	I _C =500mA, I _B =50mA
	V _{BE(sat)}			1.2	V	I _C =150mA, I _B =15mA
Base-Emitter Saturation Voltage				2.0	V	I _C =500mA, I _B =50mA
Transition Frequency	f _T	300			MHz	V _{CE} =20V, I _C =20mA, f=100MHz
Output Capacitance	C _{ob}			8	pF	V _{CB} =10V, I _E =0, f=100KHz
Delay Time	t _d			10	ns	V _{CC} =30V, V _{BE} =0.5V
Rise Time	t _r			25	ns	I _C =150mA, I _{B1} =15mA
Storage Time	t _s			225	ns	V _{CC} =30V, I _C =150mA
Fall Time	t _f			60	ns	I _{B1} =I _{B2} =15mA

Note: 2.Pulse Width ≤ 300µs, Duty Cycle≤2.0%



Curve Characteristics





Ordering Information

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

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