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TIP125/126/127

Features

- The complementary NPN types are the TIP121/2/3 respectively
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Marking : part number

Absolute Maximum Ratings @ $T_1 = 25$ °C (unless otherwise noted)

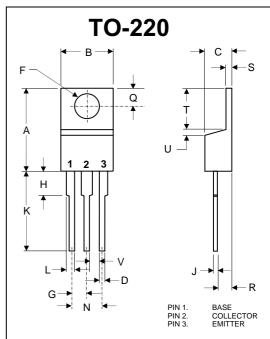
Symbol	Parameter	Value	Unit
V _{CBO} TIP125 TIP126 TIP127	Collector-base voltage (Open emitter)	-60 -80 -100	٧
V _{CEO} TIP125 TIP126 TIP127	Collector-emitter voltage (Open base)	-60 -80 -100	>
V _{EBO}	Emitter-base Voltage(Open collector)	-5	V
I _C	Collector Current	-5	Α
I _{CM}	Collector Current Pulse	-8	Α
Ι _Β	Base Current	-0.12	Α
P _C	Total Device Dissipation(Ta=25°C)	2	W
	Total Device Dissipation(Tc=25°C)	40	W
TJ	Junction Temperature	150	$^{\circ}$ C
T _{STG}	Storage Temperature Range	-65 to +150	$^{\circ}\!\mathbb{C}$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Electrical Characteristics @ 25°C Uniess Utherwise Specified							
Symbol	Parameter	Min	Max	Units			
V _{CEO(SUS)} TIP125 TIP126 TIP127	Collector-emitter sustaining voltage (I _C =-100mA; I _B =0)	-60 -80 -100		V			
$V_{\text{CE(sat)}}$	Collector-emitter Saturation Voltage (I_C =-3A I_B =-0.012A) (I_C =-5A I_B =-0.02A)		-2.0 -4.0	V			
V_{BE}	Base-emitter Voltage (I _C =-3A; V _{CE} =-3V)	-2.5	V				
I _{CBO} TIP125 TIP126 TIP127	Collector cut-off current (V_{CB} =-60V, I_{E} =0) (V_{CB} =-80V, I_{E} =0) (V_{CB} =-100V, I_{E} =0)	-0.2		mA			
I _{CEO} TIP125 TIP126 TIP127	Collector cut-off current $(V_{CE}=-30V; V_{EB}=0)$ $(V_{CE}=-40V; V_{EB}=0)$ $(V_{CE}=-50V; V_{EB}=0)$	-0.5		mA			
I _{EBO}	Emitter cut-off current (V _{EB} =-5V; I _C =0)		-2.0	mA			
Hfe	DC current gain (I_{C} =-0.5A ; V_{CE} =-3V) (I_{C} =-3.0A ; V_{CE} =-3V)	1000 1000					
C_OB	Output capacitance ($I_E=0$; $V_{CB}=-10V, f=0.1MHz$)		300	PF			

 ${\bf Notes: 1. High\ Temperature\ Solder\ Exemption\ Applied,\ see\ EU\ Directive\ Annex\ 7.}$

Silicon PNP Darlington Power Transistors



DIMENSIONS						
	INC	HES	MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.560	.625	14.22	15.88		
В	.380	.420	9.65	10.67		
С	.140	.190	3.56	4.82		
D	.020	.045	0.51	1.14		
F	.139	.161	3.53	4.09	Ø	
D	.190	.110	2.29	2.79		
Τ		.250		6.35		
J	.012	.025	0.30	0.64		
Κ	.500	.580	12.70	14.73		
Г	.045	.060	1.14	1.52		
N	.190	.210	4.83	5.33		
Q	.100	.135	2.54	3.43		
R	.080	.115	2.04	2.92		
S	.045	.055	1.14	1.39		
Т	.230	.270	5.84	6.86		
C		.050		1.27		
V	.045		1.15			



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Ordering Information:

Device	Packing
Part Number-BP	Bulk; 1Kpcs/Box

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