

EPITAXIAL SILICON DARLINGTON TRANSISTOR TIP142/TIP147

Features:

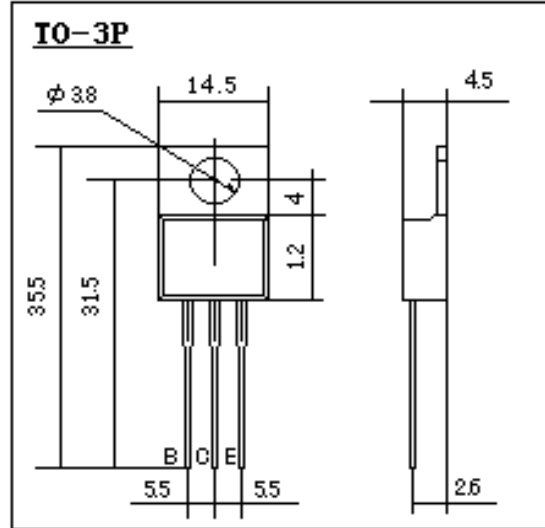
High DC current gain

Min $h_{FE}=1000@V_{CE}=4V, I_C=5A$

Monolithic construction with built in base-emitter shunt resistors industrial use

ABSOLUTE MAXIMUM RATINGS (Ta=25)

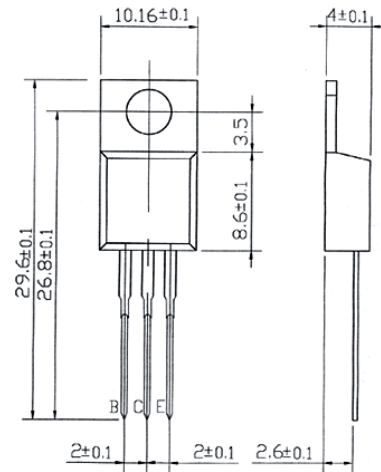
Symbol	Ratings	Units
V_{CBO}	100	V
V_{CEO}	100	V
V_{EBO}	5	V
I_C	10	A
I_C	15	A
I_B	0.5	A
$P_c(TO-3P)$	125	W
$P_c(TO-220)$	80	W
T_j	150	
T_{stg}	-65 ~ 150	



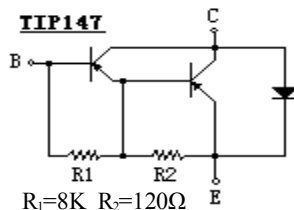
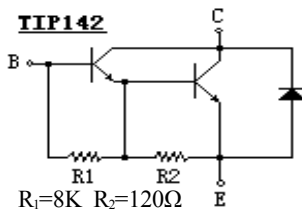
ELECTRICAL CHARACTERISTICS (Ta=25)

Symbol	Test conditions	Min	Typ	Max	Units
$V_{CEO} (sus)$	$I_C=30mA, I_B=0$	100			V
I_{CEO}	$V_{CE}=50V, I_B=0$			2	mA
I_{CBO}	$V_{CB}=100V, I_E=0$			1	mA
I_{EBO}	$V_{BE}=5V, I_C=0$			2	mA
h_{FE}	$V_{CE}=4V, I_C=5A$ $V_{CE}=4V, I_C=10A$	1000 500			
$V_{CE(sat)}$	$I_C=5A, I_B=10mA$ $I_C=10A, I_B=40mA$			2.0 3.0	V
$V_{BE(sat)}$	$I_C=10A, I_B=40mA$			3.5	V
$V_{BE(on)}$	$V_{CE}=4V, I_C=10A$			3.0	V
t_d	$V_{CC}=30V, I_C=5A$		0.15		μS
t_r	$I_B=20mA, I_{B1}=I_{B2}$		0.55		μS
t_s			2.5		μS
t_f			2.5		μS

TO-220



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