

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Two DTC144T chips in a package.

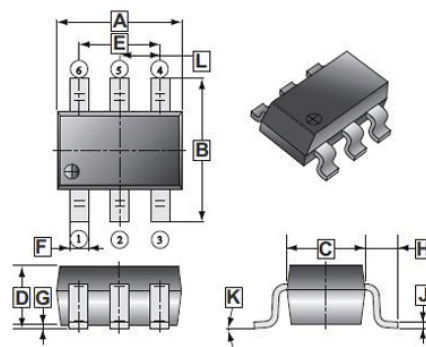
MARKING

H13

PACKAGE INFORMATION

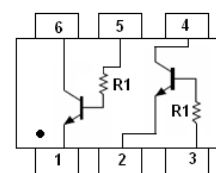
Package	MPQ	Leader Size
SOT-363	3K	7 inch

SOT-363



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.00	2.20	G	0.100	REF.
B	2.15	2.45	H	0.525	REF.
C	1.15	1.35	J	0.08	0.15
D	0.90	1.10	K	8°	
E	1.20	1.40	L	0.650 TYP.	
F	0.15	0.35			

Top View



ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Unit
Collector-base voltage	V_{CBO}	50	V
Collector-emitter voltage	V_{CEO}	50	V
Emitter-base voltage	V_{EBO}	5	V
Collector current	I_C	100	mA
Power dissipation	P_D	150	mW
Junction & Storage temperature	T_J, T_{STG}	150, -55 ~ 150	°C

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector-base breakdown voltage	$V_{(BR)CBO}$	50	-	-	V	$I_C=50\mu\text{A}, I_E=0$
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	50	-	-	V	$I_C=1\text{mA}, I_B=0$
Emitter-base breakdown voltage	$V_{(BR)EBO}$	5	-	-	V	$I_E=50\mu\text{A}, I_C=0$
Collector cut-off current	I_{CBO}	-	-	0.5	μA	$V_{CB}=50\text{V}, I_E=0$
Emitter cut-off current	I_{EBO}	-	-	0.5	μA	$V_{EB}=4\text{V}, I_C=0$
Collector-emitter saturation voltage	$V_{CE(sat)}$	-	-	0.3	V	$I_C=5\text{mA}, I_B=0.5\text{mA}$
DC current transfer ratio	h_{FE}	100	-	600		$V_{CE}=5\text{V}, I_C=1\text{mA}$
Input resistance	R_1	32.9	-	61.1	K Ω	
Transition frequency	f_T	-	250	-	MHz	$V_{CE}=10\text{V}, I_C=5\text{mA}, f=100\text{MHz}$