

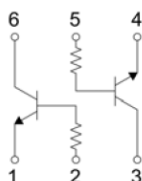
RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

FEATURES

- Two DTC143T chips in a UMT package.
- The elements of transistors are independent without interference.
- With this package, the mounting cost and space can be cut into half.

EQUIVALENT CIRCUIT



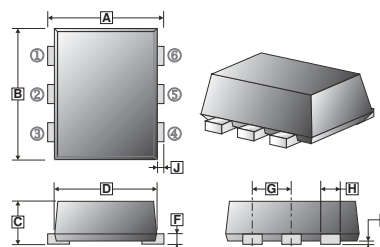
MARKING

H3

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-563	3K	7 inch

SOT-563



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.50	1.70	F	0.09	0.16
B	1.50	1.70	G	0.45	0.55
C	0.525	0.60	H	0.17	0.27
D	1.10	1.30	J	0.10	0.30
E	-	0.05			

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{(BR)CBO}	50	V
Collector-Emitter Voltage	V _{(BR)CEO}	50	V
Emitter-Base Voltage	V _{(BR)EBO}	5	V
Collector Current	I _C	100	mA
Collector Power Dissipation	P _C	150	mW
Junction and Storage Temperature	T _J , T _{STG}	150, -55~150	°C

ABSOLUTE MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Collector-Base Breakdown Voltage	V _{(BR)CBO}	50	-	-	V	I _C =50μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	50	-	-		I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	5	-	-	V	I _E =50μA, I _C =0
Collector Cut-Off Current	I _{CBO}	-	-	500	nA	V _{CB} =50V, I _E =0
Emitter Cut-Off Current	I _{EBO}	-	-	500	nA	V _{EB} =4V, I _C =0
Collector-Emitter Saturation Voltage	V _{CE(sat)}	-	-	0.3	V	I _C =5mA, I _B =0.25mA
DC Current Transfer Ration	h _{FE}	100	-	600		V _{CE} =5V, I _C =1mA
Input Resistance	R ₁	3.29	4.7	6.11	KΩ	
Transition Frequency	f _T	-	250	-	MHZ	V _{CE} =10V, I _E =-5mA, f=100MHZ

CHARACTERISTIC CURVE

Static Characteristic

