

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

FEATURES

- Mounting Possible With SOT-563 Automatic Mounting Machines.
- Transistor elements are independent, eliminating interference.

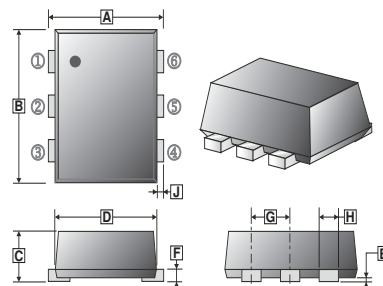
MARKING

T1

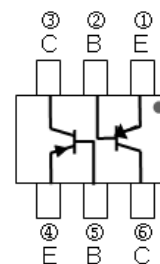
PACKAGE INFORMATION

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	0.600	H	0.17	0.27
D	1.10	1.30	J	0.10	0.30
E	0.05 REF.				



ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Collector-Base Voltage	V _{CBO}	-60	V
Collector-Emitter Voltage	V _{CEO}	-50	V
Emitter-Base Voltage	V _{EBO}	-6	V
Collector Current – Continuous	I _C	-150	mA
Collector Power Dissipation	P _C	150	mW
Junction & Storage temperature	T _J , T _{STG}	150, -55~150	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-60	-	-	V	I _C = -50μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-50	-	-	V	I _C = -1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-6	-	-	V	I _E = -50μA, I _C =0
Collector Cut-Off Current	I _{CBO}	-	-	-0.1	μA	V _{CB} = -60V, I _E =0
Emitter Cut-Off Current	I _{EBO}	-	-	-0.1	μA	V _{EB} = -7V, I _C =0
DC Current Gain	h _{FE}	120	-	560		V _{CE} = -6V, I _C = -1mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}	-	-	-0.5	V	I _C = -50mA, I _B = -5mA
Transition Frequency	f _T	-	140	-	MHz	V _{CE} = -12V, I _C = -2mA, f=100MHz
Collector Output Capacitance	C _{ob}	-	-	5	pF	V _{CB} = -12V, I _E =0, f=1MHz