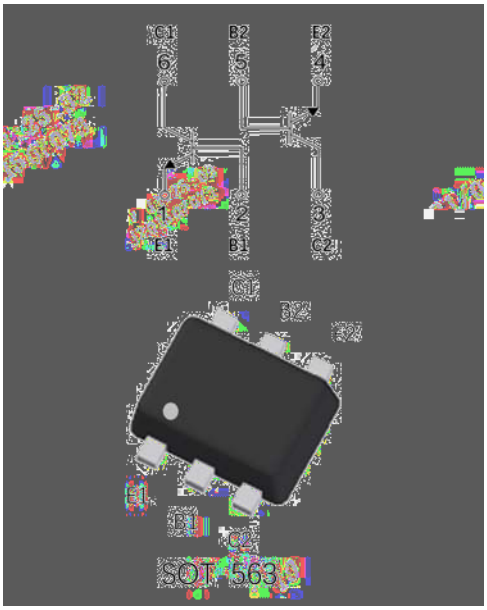
RoHS COMPLIANT

Dual NPN Small Signal Transistor



Features

Moisture sensitivity level 1

Halogen free and RoHS compliant

Surface mount package ideally suited for auto matic Insertion

Application

Signal amplification

Switching circuit

Mechanical data

Package SOT-563

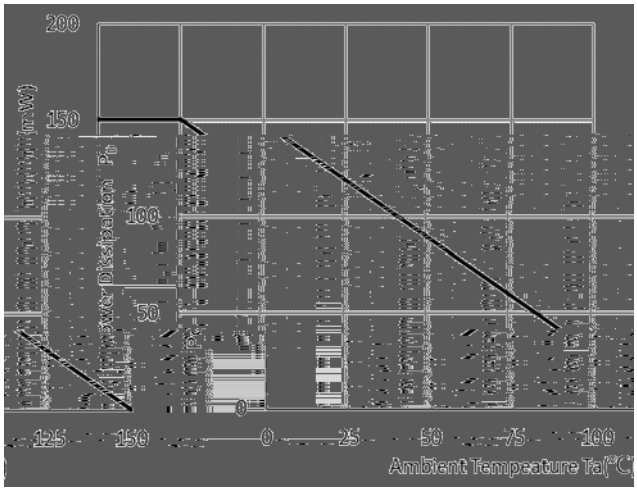
Terminals Tin plated leads, solderable per J-STD-002 and JESD22-B102

■ Maximum Ratings (T_a=25 Unless otherwise specified)

Item	Symbol	Unit	Conditions	Value
Device marking code				X1
Collector-base voltage	V_{CBO}	V	I_C=50uA,I_E=0	60
Collector-emitter voltage	V_{CEO}	V	I_C=1mA,I_B=0	50
Emitter-base voltage	V_{EBO}	V	I_E=50uA,I_C=0	7
Collector current	I_C	mA		150
Power dissipation	P_D	mW		150
Junction temperature	T_J			-55 to +150
Storage temperature	T_{STG}			-55 to +150

Item	Symbol	Unit	Conditions	Min	Typ	Max
Collector-base breakdown voltage	$V_{(BR)CBO}$	V	I_C=50uA,I_E=0	60		
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	V	I_C=1mA,I_B=0	50		
Emitter-base breakdown voltage	$V_{(BR)EBO}$	V	I_E=50uA,I_C=0	7		
Collector cut-off current	I_{CBO}	nA	V_{CB}=60V,I_B=0			100
Emitter-base cutoff current	I_{EBO}	nA	V_{EB}=7V, I_C=0			100
DC current gain	h_{FE}		V_{CE}=6V,I_C=1mA	120		560

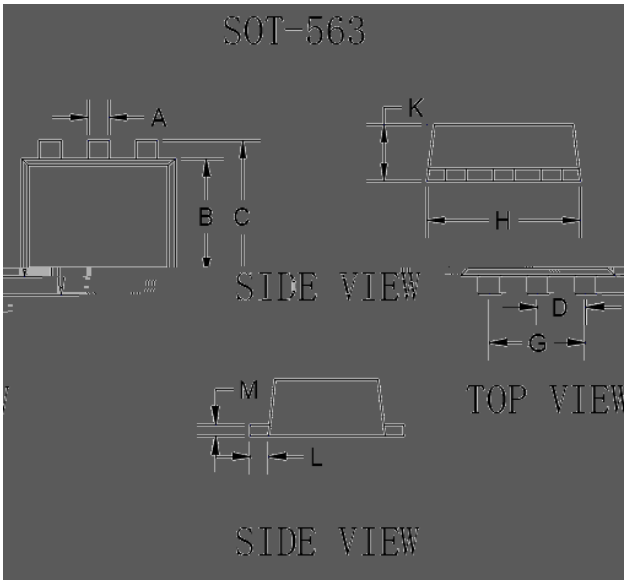
Fig 7 P_D-Ta Curve



■Ordering Information

Preferred P/N	Packing code	Unit weight(g)	Minimum package(pcs)	Inner box quantity(pcs)	Outer carton quantity(pcs)	Delivery mode
EMX1	F2	Approximate 0.0035	3000	30000	120000	7” reel

■ Outline Dimensions



DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.006	0.011	0.150	0.300
B	0.043	0.051	1.100	1.300
C	0.059	0.067	1.500	1.700
D	0.016	0.024	0.400	0.600
G	0.035	0.043	0.900	1.100

■ Suggested Pad Layout