

Features

- Two 2SC2412K Chips in a Package
- · Mounting Cost and Area Can be Cut in Half
- · Transistor Elements are Independent, Eliminating Interference
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- · Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

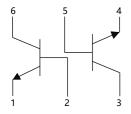
Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- · Thermal Resistance: 833°C/W Junction to Ambient

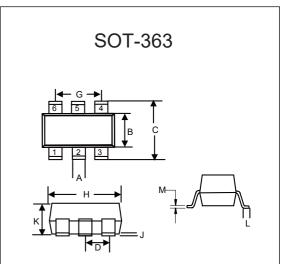
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	60	V
Collector-Emitter Voltage	V _{CEO}	50	V
Emitter-Base Voltage	V_{EBO}	7	V
Continuous Collector Current	I _C	150	mA
Power Dissipation	P _D	150	mW

Marking: X1

Internal Structure

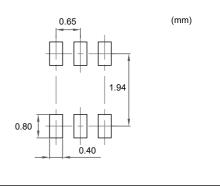


Dual NPN Transistors



DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	INOIL
Α	0.006	0.014	0.15	0.35	
В	0.045	0.053	1.15	1.35	
С	0.079	0.096	2.00	2.45	
D	0.0	26	0.6	5	TYP.
G	0.047	0.055	1.20	1.40	
Н	0.071	0.087	1.80	2.20	
J		0.004		0.10	
K	0.031	0.043	0.80	1.10	
L	0.010	0.018	0.26	0.46	
M	0.003	0.006	0.08	0.15	

Suggested Solder Pad Layout



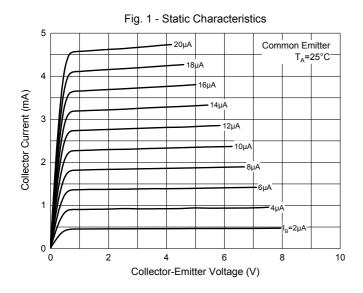


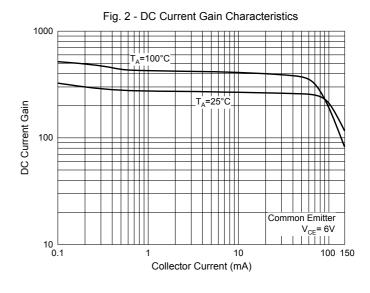
Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

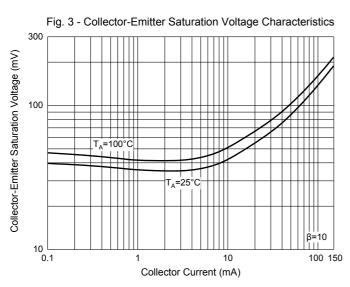
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	60			V	$I_{C}=50\mu A, I_{E}=0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	50			V	I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	7			V	$I_{E}=50\mu A, I_{C}=0$
Collector Cutoff Current	I _{CBO}			0.1	μA	V_{CB} =60V, I_E =0
Emitter Cutoff 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)}			0.40	V	I _C =50mA, I _B =5mA
Transition Frequency	f _T		180		MHz	V _{CE} =12V, I _C =-2mA, f=100MHz
Output Capacitance	C _{ob}		2	3.5	pF	V_{CB} =12V, I_E =0,f=1MHz

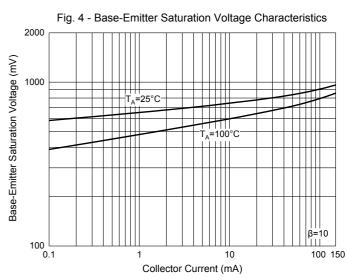


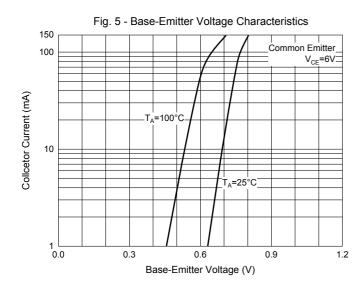
Curve Characteristics

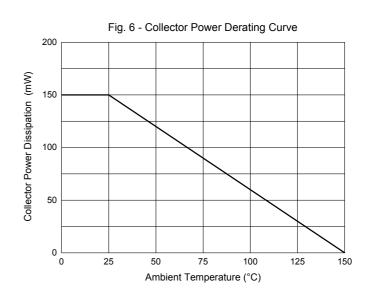














Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note: Adding "-HF" Suffix for Halogen Free, eg. Part Number-TP-HF

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