

Dual NPN+PNP Small Signal Transistor



Features

- Epoxy meets UL-94 V-0 flammability rating
- Surface mount package ideally Suited for Automatic Insertion
- NPN/PNP

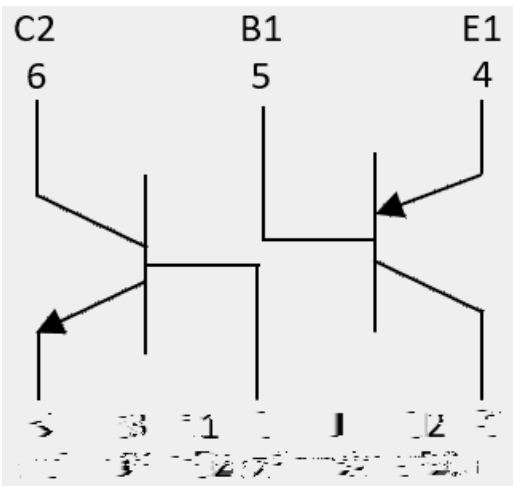
Mechanical Data

Package: SOT-363

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

Marking: K13

Equivalent circuit



Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MMDT4413	F2	Approximate 0.009g	3000	30000	120000	7" reel



MMDT4413

TR1 PNP Pin3 4 5 Maximum Ratings (Ta=25 Unless otherwise specified)

Item	Symbol	Unit	Conditions	Value
Collector-Base Voltage	V_{CBO}	V	$I_C=-100\text{ A}, I_E=0$	-40
Collector-Emitter Voltage	V_{CEO}	V	$I_C=-1\text{ mA}, I_B=0$	-40
Emitter-Base Voltage	V_{EBO}	V	$I_E=-100\text{ A}, I_C=0$	-5
Collector Current -Continuous	I_C	mA		-200
Total Device Dissipation	P_C	mW		200
Junction Temperature	T_j			150
Storage Temperature	T_{STG}			-55 to +150

TR1 PNP Pin3 4 5 Electrical Characteristics (Ta=25 unless otherwise specified)

Item	Symbol	Unit	Conditions	Min	TYP	Max
Collector-base breakdown voltage	V_{CBO}	V	$I_C=-100\text{ A}, I_E=0$	-40		
Collector-emitter breakdown voltage	V_{CEO}	V	$I_C=-1\text{ mA}, I_B=0$	-40		
Emitter-base breakdown voltage	V_{EBO}	V	$I_E=-100\text{ A}, I_C=0$	-5		
Collector cut-off current	I_{CBO}	nA	$V_{CB}=-50\text{ V}, I_E=0$			-100
Emmitter cut-off current	I_{EBO}	nA	$V_{EB}=-5\text{ V}, I_C=0$			-100

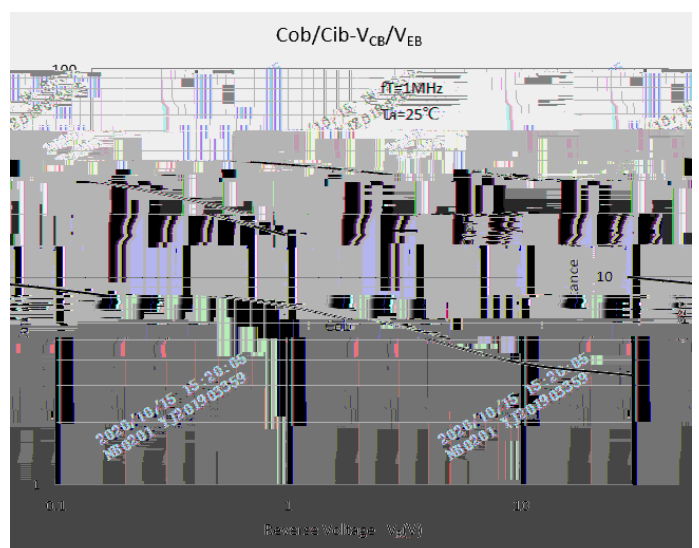
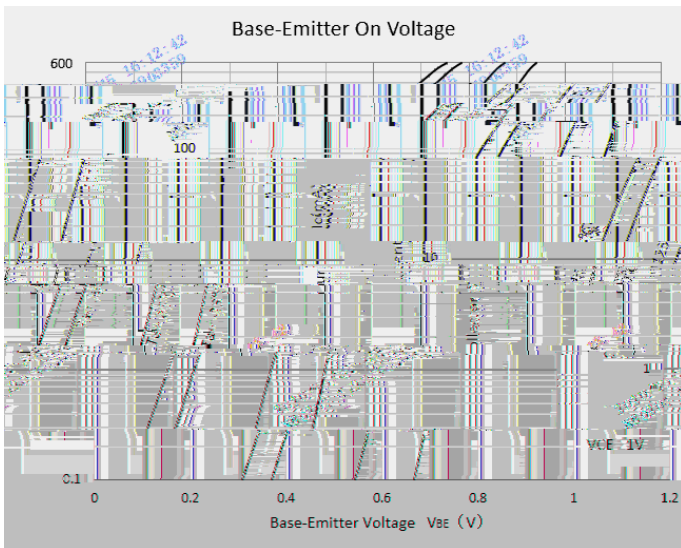
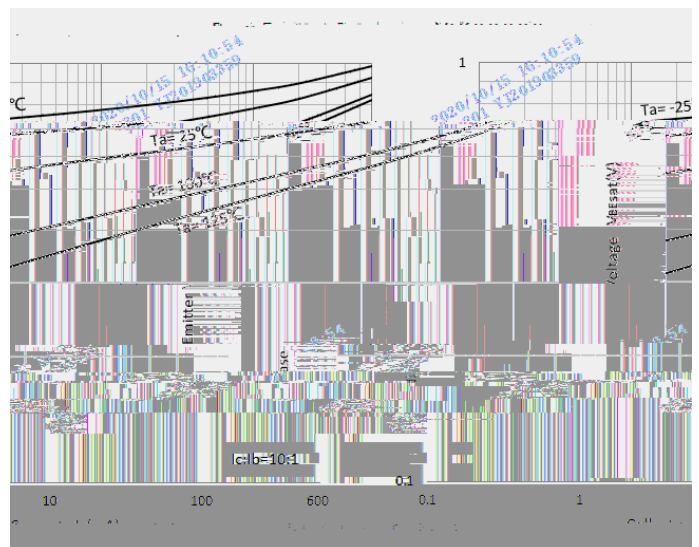
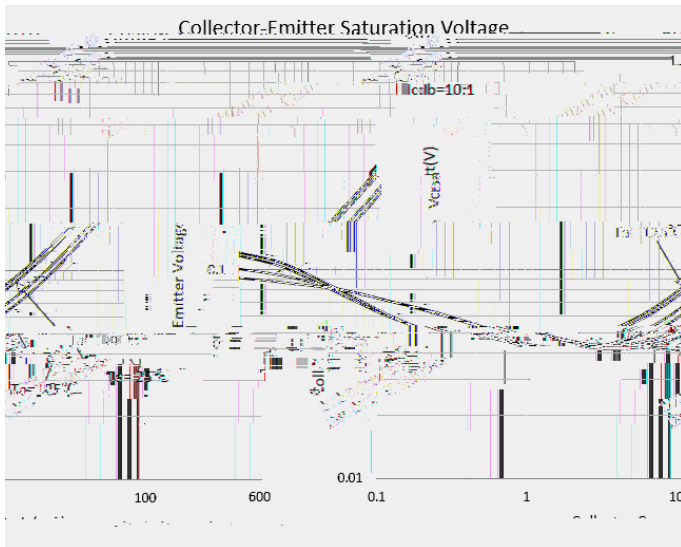
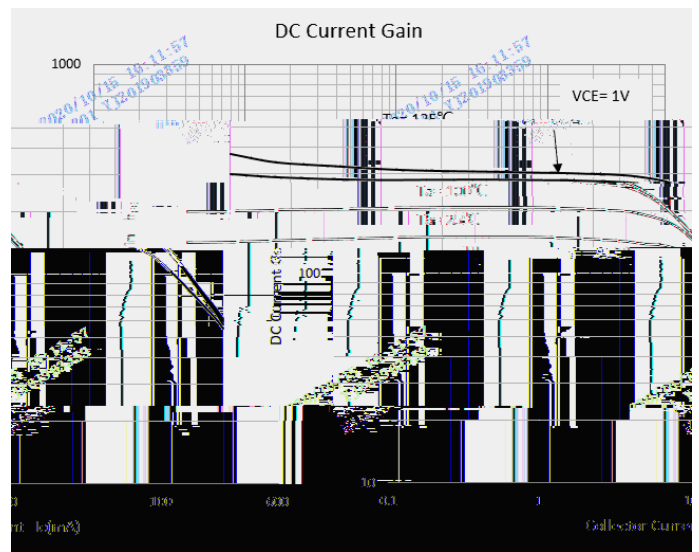
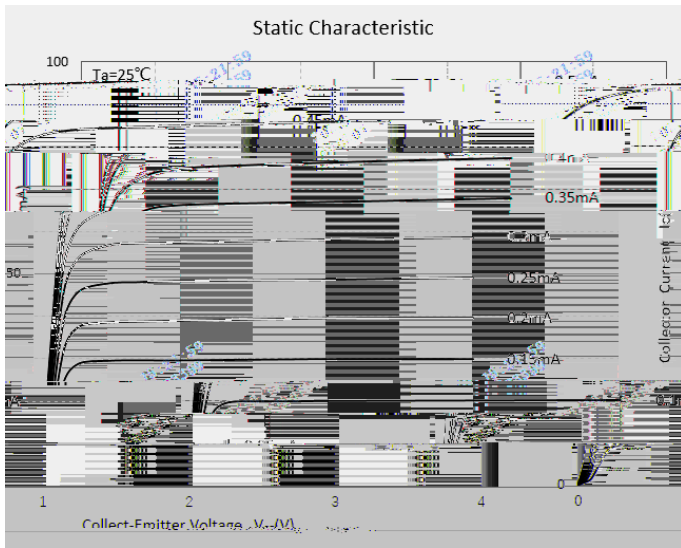
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DC current gain



MMDT4413

TR2 NPN Pin1 2 6 Characteristics (Typical)





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