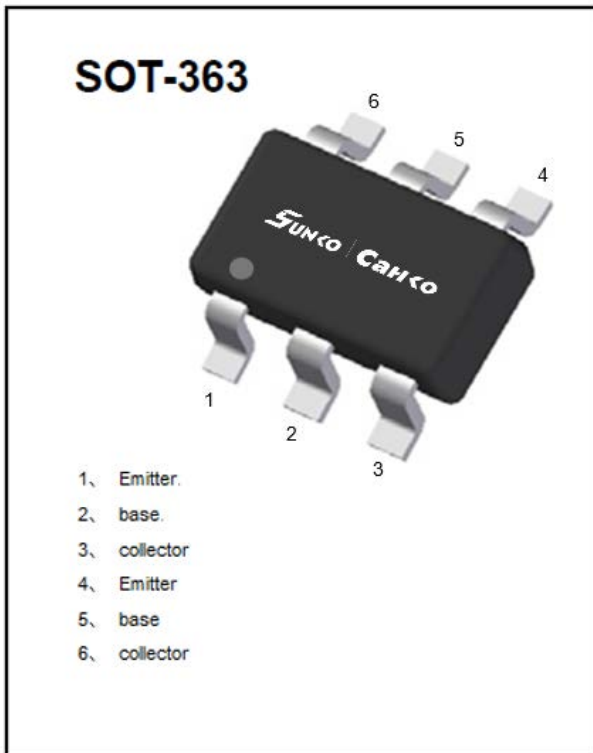


Dual PNP Small Signal Transistor



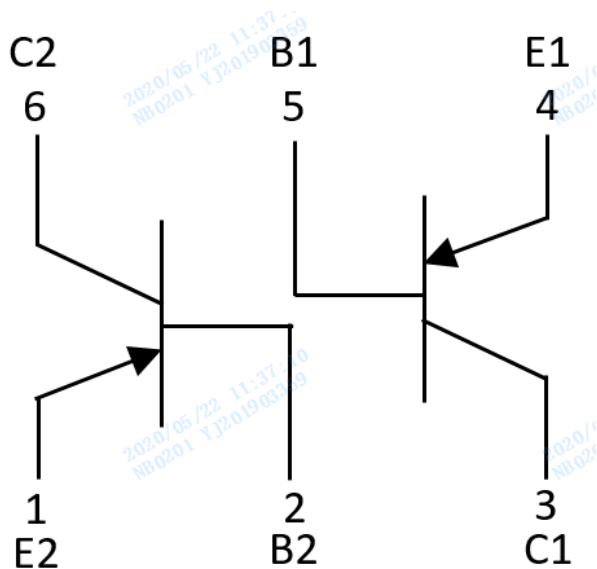
Features

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

Mechanical Data

- **Package:** SOT-363
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:** K2T

■Equivalent circuit



MMDT4403

■Maximum Ratings (Ta=25°C Unless otherwise specified)

Item	Symbol	Unit	Conditions	Value
Collector-Base Voltage	VCBO	V	IC=-100μA,IE=0	-40
Collector-Emitter Voltage	VCEO	V	IC=-1mA,IB=0	-40
Emitter-Base Voltage	VEBO	V	IE=-100μA,IC=0	-5
Collector Current -Continuous	IC	mA		-600
Total Device Dissipation	PC	mW		200
Junction Temperature	TJ	°C		150
Storage Temperature	TSTG	°C		-55 to +150

■Electrical Characteristics (Ta=25°C unless otherwise specified)

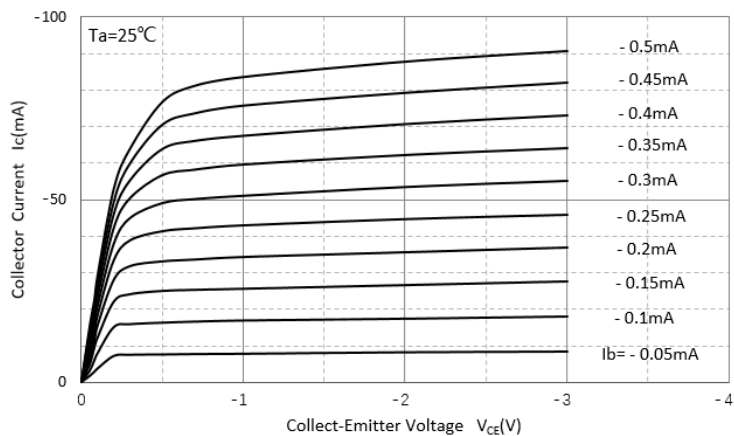
Item	Symbol	Unit	Conditions	Min	TYP	Max
Collector-base breakdown voltage	V _{CBO}	V	IC=-100μA,IE=0	-40		
Collector-emitter breakdown voltage	V _{CEO}	V	IC=-1mA,IB=0	-40		
Emitter-base breakdown voltage	V _{EBO}	V	IE=-100μA,IC=0	-5		
Collector cut-off current	I _{CBO}	nA	VCB=-50V,IE=0			-100
Collector cut-off current	I _{CEO}	nA	VCE=-35V, IB=0			-500
Emmitter cut-off current	I _{EBO}	nA	VEB=-5V, IC=0			-100
DC current gain	h _{FE1}		VCE=-1V,IC=-0.1mA	30		
	h _{FE2}		VCE=-1V,IC=-1mA	60		
	h _{FE3}		VCE=-1V,IC=-10mA	100		
	h _{FE4}		VCE=-2V,IC=-150mA	100		300
	h _{FE5}		VCE=-2V,IC=-500mA	20		
Collector-emitter saturation voltage	V _{CE(sat)}	V	IC=-150mA,IB=-15mA			-0.4
Collector-emitter saturation voltage	V _{CE(sat)}	V	IC=-500mA,IB=-50mA			-0.75
Base-emitter saturation voltage	V _{BE(sat)}	V	IC=-150mA,IB=-15mA			-0.95
Base-emitter saturation voltage	V _{BE(sat)}	V	IC=-500mA,IB=-50mA			-1.3
Transition frequency	f _T	MHz	VCE=-10V,IC=-20mA,f=100MHz	200		
Delay time	td	ns	VCC=-30V,IC=-150mA, IB1=-15mA,VBE(off)=-2V			15
Rise time	tr	ns				20
Storage time	ts	ns				225
Fall time	tf	ns				30

■ Ordering Information (Example)

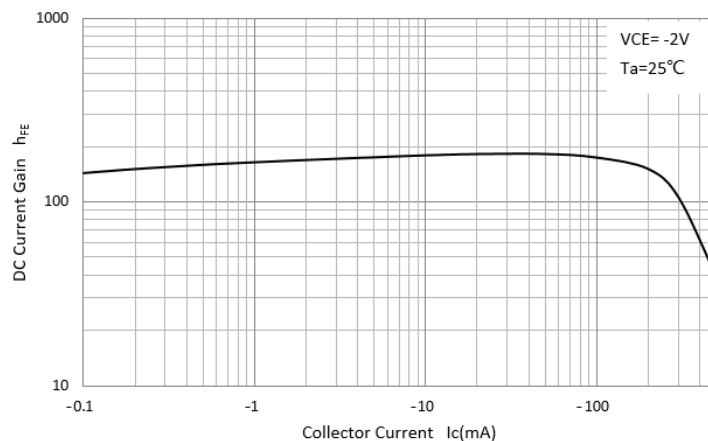
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MMDT4403	F2	Approximate 0.009g	3000	30000	120000	7" reel

■ Characteristics (Typical)

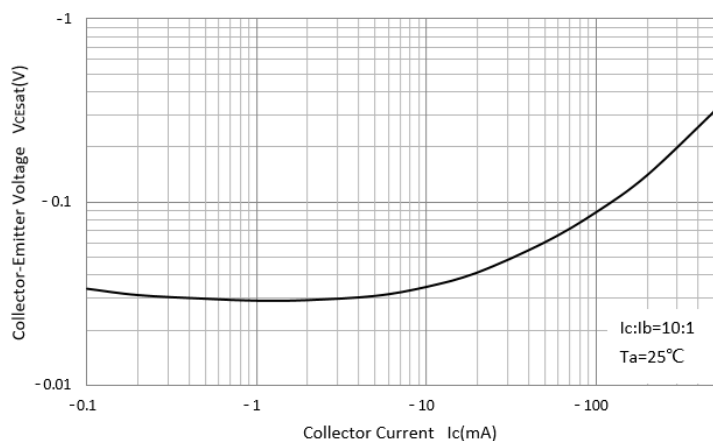
Static Characteristic



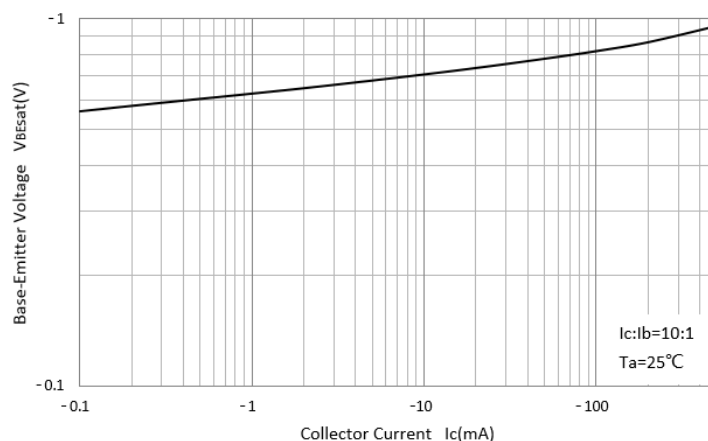
DC Current Gain



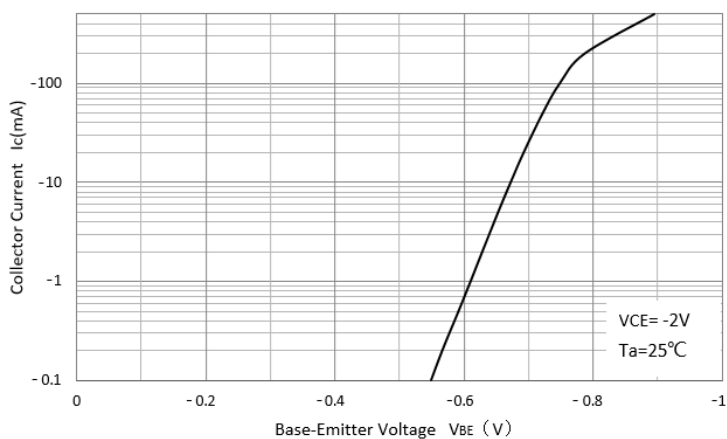
Collector-Emittor Saturation Voltage



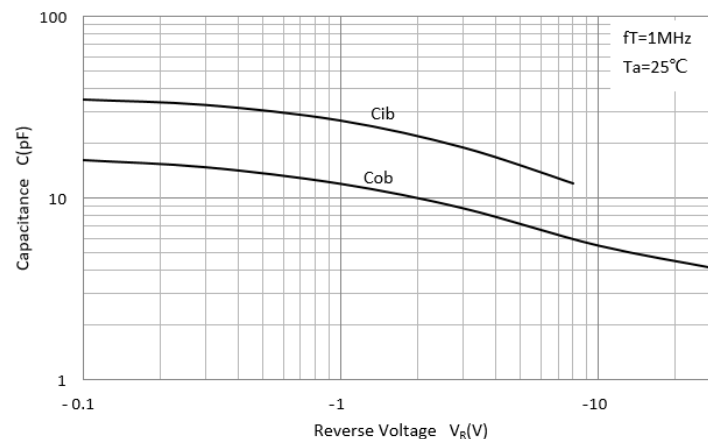
Base-Emittor Saturation Voltage



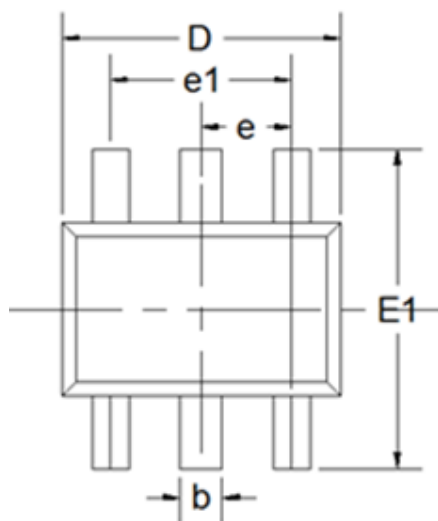
Base-Emittor On Voltage



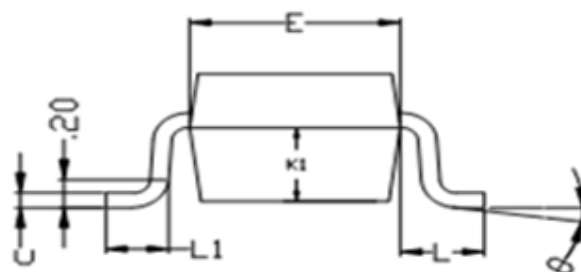
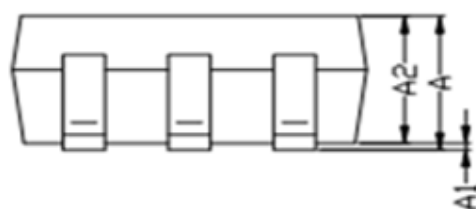
$C_{ob}/C_{ib}-V_{CB}/V_{EB}$



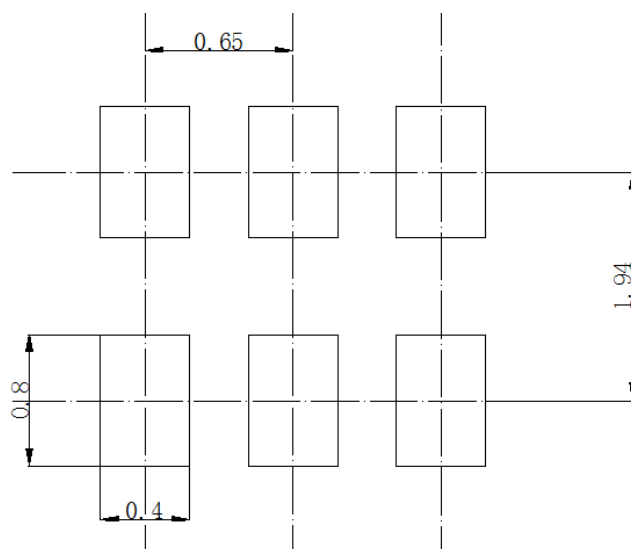
■SOT-363 Package Outline Dimensions



DIM	DIMENSIONS			
	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.035	0.043	0.9	1.1
A1	0	0.004	0	0.1
A2	0.035	0.039	0.9	1
b	0.006	0.014	0.15	0.35
c	0.002	0.01	0.05	0.25
D	0.071	0.087	1.8	2.2
E	0.045	0.053	1.15	1.35
E1	0.085	0.096	2.15	2.45
e	0.026Typ		0.65Typ	
e1	0.047	0.055	1.2	1.4
L	0.021Typ		0.525Typ	
L1	0.01	0.018	0.26	0.46
θ	0°		8°	



■SOT-363 Soldering Footprint



Unit: mm

Disclaimer

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