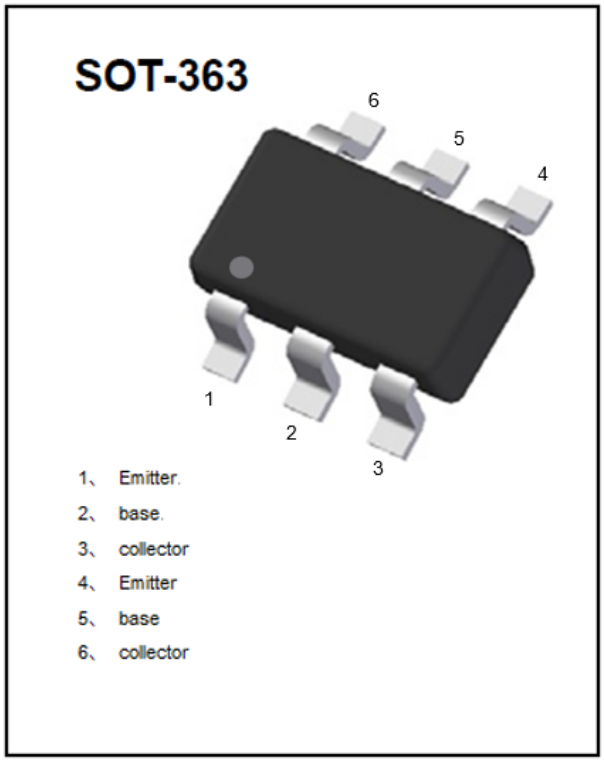
Dual PNP Small Signal Transistor



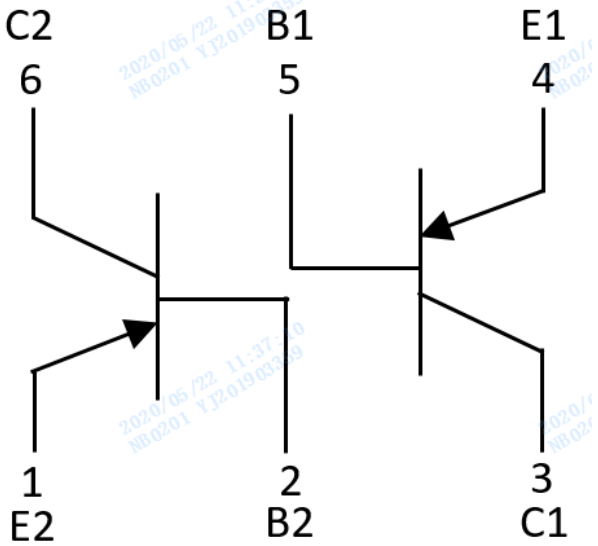
Features

- 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:**K2F

■Equivalent circuit



■Maximum Ratings (Ta=25℃ Unless otherwise specified)

Item	Symbol	Unit	Conditions	Value
Collector-Base Voltage	VCBO	V	IC=-10μA,IE=0	-60
Collector-Emitter Voltage	VCEO	V	IC=-10mA,IB=0	-60
Emitter-Base Voltage	VEBO	V	IE=-10μA,IC=0	-5
Collector Current -Continuous	IC	mA		-600
Total Device Dissipation	PC	mW		200
Junction Temperature	Tj	℃		150
Storage Temperature	TSTG	℃		-55 to +150

■Electrical Characteristics (Ta=25℃ unless otherwise specified)

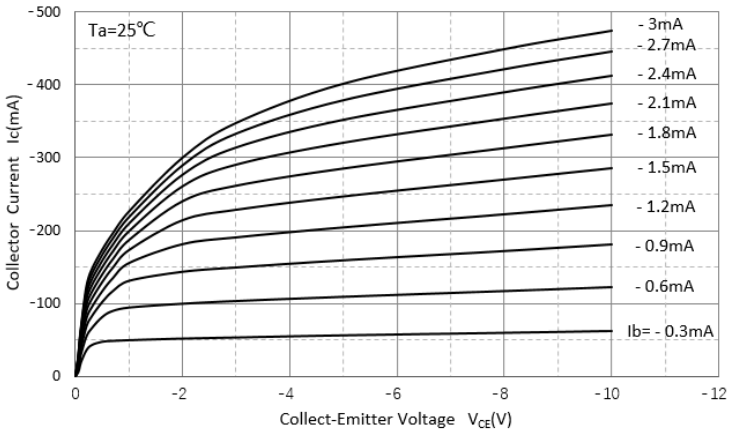
Item	Symbol	Unit	Conditions	Min	TYP	Max
Collector-base breakdown voltage	V_{CBO}	V	IC=-10μA,IE=0	-60		
Collector-emitter breakdown voltage	V_{CEO}	V	IC=-10mA,IB=0	-60		
Emitter-base breakdown voltage	V_{EBO}	V	IE=-10μA,IC=0	-5		
Collector cut-off current	I_{CBO}	nA	VCB=-50V,IE=0			-10
Collector cut-off current	I_{CEX}	nA	VCE=-30V,VEB(off)=-0.5V			-50
Emmiter cut-off current	I_{EBO}	nA	VEB=-5V, IC=0			-10
DC current gain	$h_{FE}1$		VCE=-10V,IC=-0.1mA	75		
	$h_{FE}2$		VCE=-10V,IC=-1mA	100		
	$h_{FE}3$		VCE=-10V,IC=-10mA	100		
	$h_{FE}4$		VCE=-10V,IC=-150mA	100		300
	$h_{FE}5$		VCE=-10V,IC=-500mA	50		
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			-1.6
Base-emitter saturation voltage	$V_{BE(sat)}$	V	IC=-150mA,IB=-15mA			-1.3
Base-emitter saturation voltage	$V_{BE(sat)}$	V	IC=-500mA,IB=-50mA			-2.6
Transition frequency	f_T	MHz	VCE=-20V,IC=-50mA,f=100MHz	200		
Delay time	td	ns	VCC=-30V,IC=-150mA, IB1=-15mA			10
Rise time	tr	ns				40
Storage time	ts	ns	VCC=-6V,IC=-150mA, IB1= -IB2=-15mA			225
Fall time	tf	ns				60

■ Ordering Information (Example)

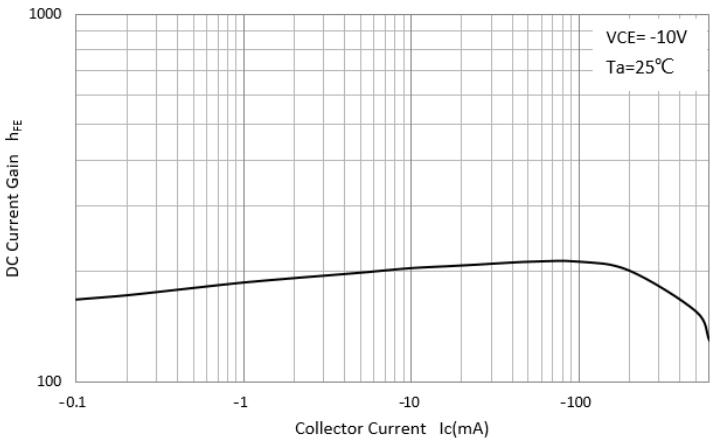
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MMDT2907A	F2	Approximate 0.009g	3000	30000	120000	7" reel

■ Characteristics (Typical)

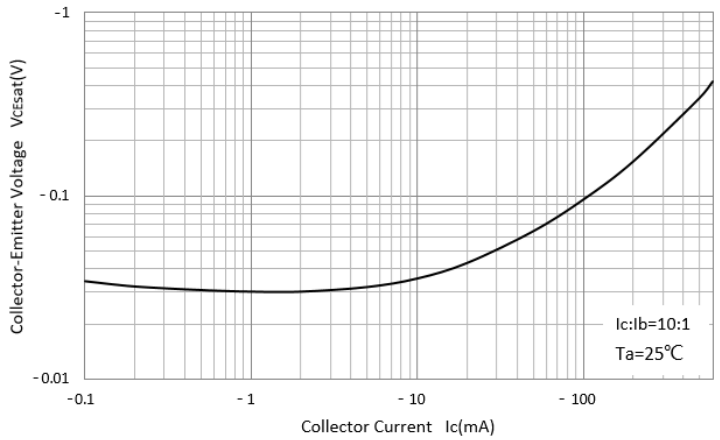
Static Characteristic



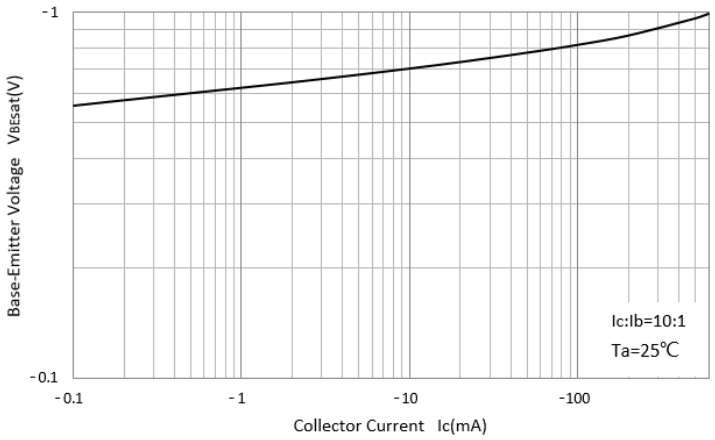
DC Current Gain



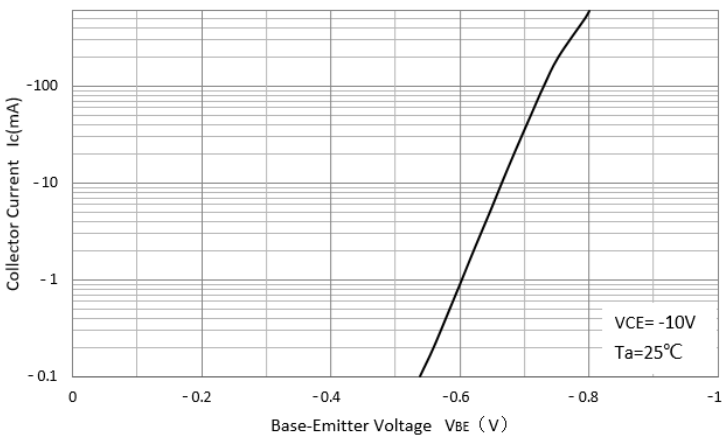
Collector-Emitter Saturation Voltage



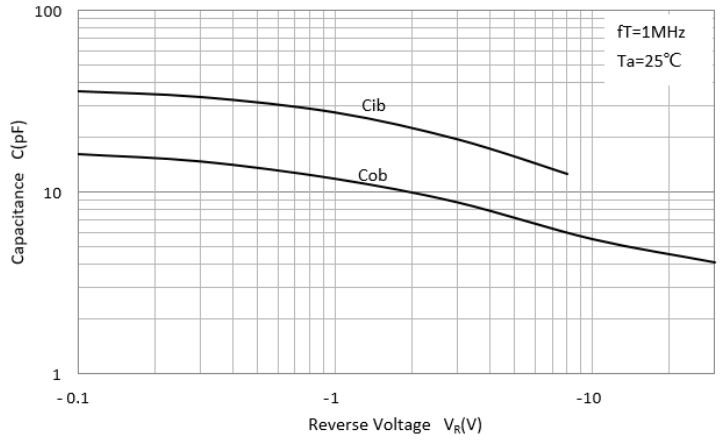
Base-Emitter Saturation Voltage



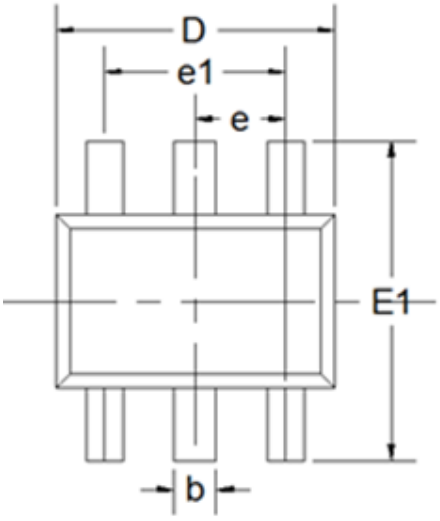
Base-Emitter On Voltage



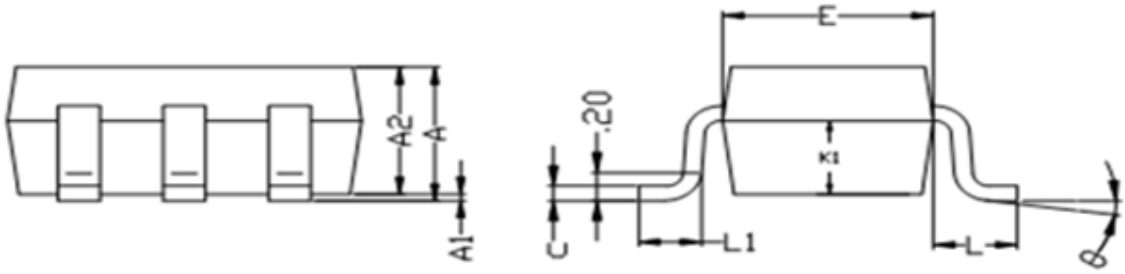
Cob/Cib-V_{CB}/V_{EB}



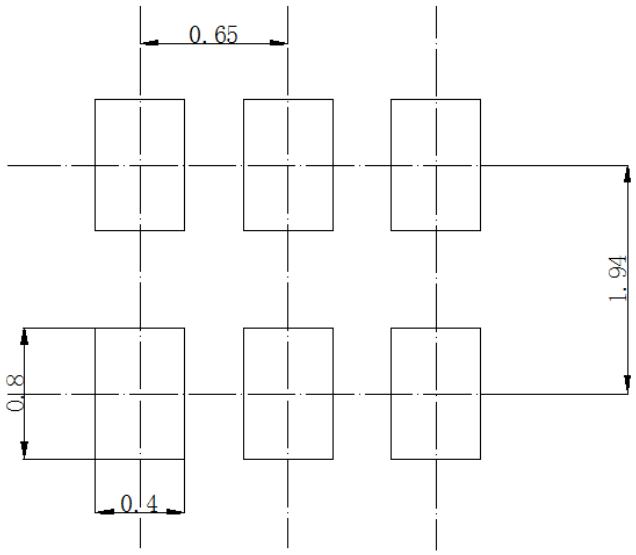
■SOT-363 Package Outline Dimensions



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°	0°	8°



■SOT-363 Soldering Footprint



Unit：mm

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