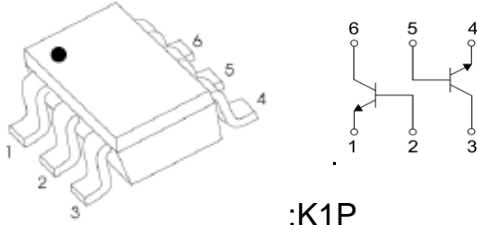
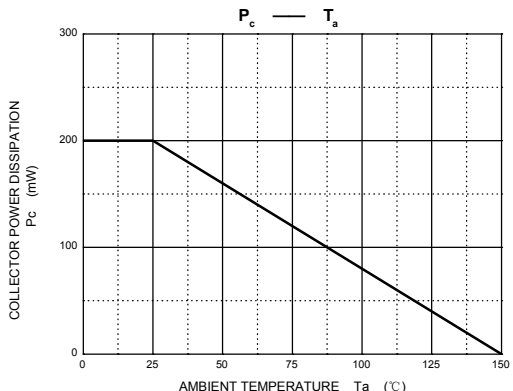
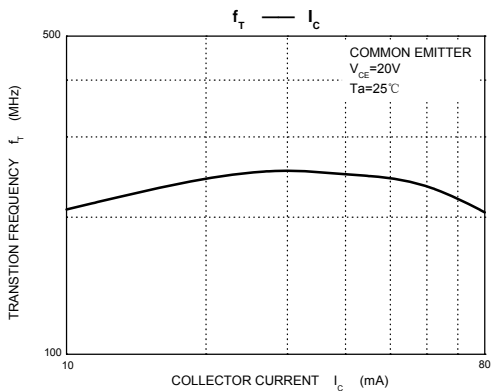
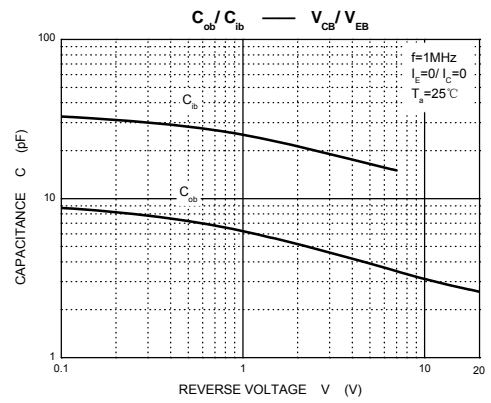
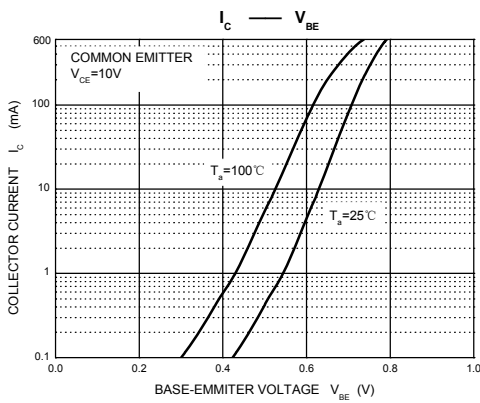
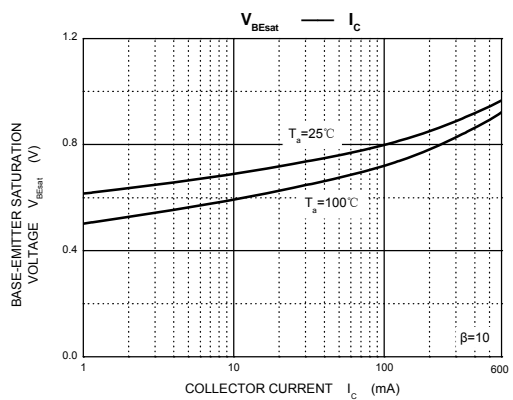
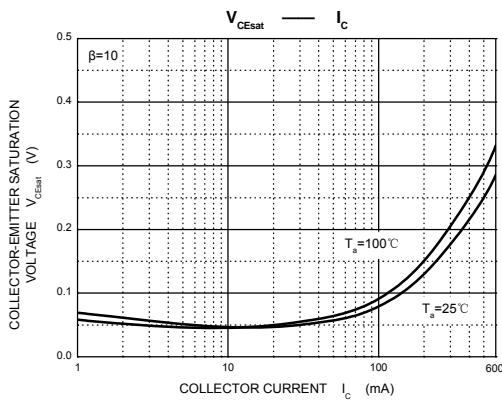
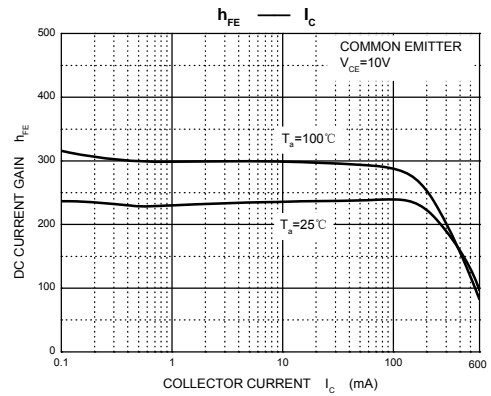
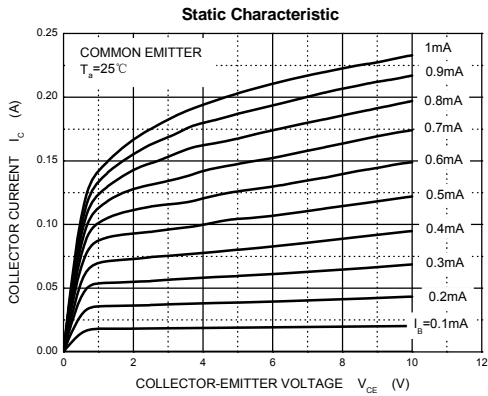


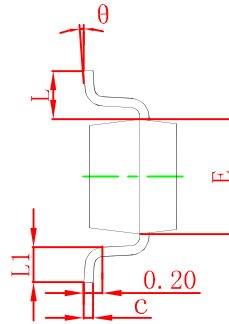
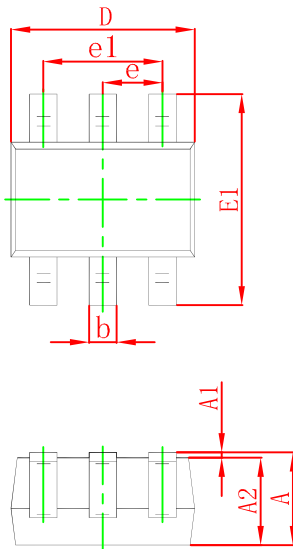
DUAL TRANSISTOR (NPN+NPN)		SOT-363 Plastic-Encapsulate Transistors																													
<p style="text-align: center;"><u>SOT-363</u></p>  <p style="text-align: center;">:K1P</p>		<p>Features</p> <p>Complementary PNP Type available MMDT2907A</p>																													
<p>MAXIMUM RATINGS (T_a=25°C unless otherwise noted)</p> <table border="1"> <thead> <tr> <th>Symbol</th> <th>Parameter</th> <th>Value</th> <th>Units</th> </tr> </thead> <tbody> <tr> <td>V_{CBO}</td> <td>Collector-Base Voltage</td> <td>75</td> <td>V</td> </tr> <tr> <td>V_{CEO}</td> <td>Collector-Emitter Voltage</td> <td>40</td> <td>V</td> </tr> <tr> <td>V_{EBO}</td> <td>Emitter-Base Voltage</td> <td>6</td> <td>V</td> </tr> <tr> <td>I_C</td> <td>Collector Current -Continuous</td> <td>600</td> <td>mA</td> </tr> <tr> <td>P_C</td> <td>Collector Power Dissipation</td> <td>200</td> <td>mW</td> </tr> <tr> <td>T_J, T_{stg}</td> <td>Operation Junction and Storage Temperature Range</td> <td>-55~+150</td> <td>°C</td> </tr> </tbody> </table>				Symbol	Parameter	Value	Units	V _{CBO}	Collector-Base Voltage	75	V	V _{CEO}	Collector-Emitter Voltage	40	V	V _{EBO}	Emitter-Base Voltage	6	V	I _C	Collector Current -Continuous	600	mA	P _C	Collector Power Dissipation	200	mW	T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C
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ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)					
Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = 10\mu A, I_E = 0$	75		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = 10mA, I_B = 0$	40		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = 10\mu A, I_C = 0$	6		V
Collector cut-off current	I_{CBO}	$V_{CB} = 60V, I_E = 0$		10	nA
Collector cut-off current	I_{CEX}	$V_{CE} = 60V, V_{EB(off)} = 3V$		10	nA
Emitter cut-off current	I_{EBO}	$V_{EB} = 3V, I_C = 0$		10	nA
DC current gain	$h_{FE(1)}$	$V_{CE} = 10V, I_C = 0.1mA$	35		
	$h_{FE(2)}$	$V_{CE} = 10V, I_C = 1mA$	50		
	$h_{FE(3)}$	$V_{CE} = 10V, I_C = 10mA$	75		
	$h_{FE(4)}$	$V_{CE} = 10V, I_C = 150mA$	100	300	
	$h_{FE(5)}$	$V_{CE} = 10V, I_C = 500mA$	40		
	$h_{FE(6)}$	$V_{CE} = 1V, I_C = 150mA$	35		
Collector-emitter saturation voltage	$V_{CE(sat)1}$	$I_C = 150mA, I_B = 15mA$		0.3	V
	$V_{CE(sat)2}$	$I_C = 500mA, I_B = 50mA$		1	V
Base-emitter saturation voltage	$V_{BE(sat)1}$	$I_C = 150mA, I_B = 15mA$	0.6	1.2	V
	$V_{BE(sat)2}$	$I_C = 500mA, I_B = 50mA$		2	V
Transition frequency	f_T	$V_{CE} = 20V, I_C = 20mA, f = 100MHz$	300		MHz
Output Capacitance	C_{ob}	$V_{CB} = 10V, I_E = 0, f = 1MHz$		8	pF
Input Capacitance	C_{ib}	$V_{EB} = 0.5V, I_C = 0, f = 1MHz$		25	pF
Noise Figure	NF	$V_{CE} = 10V, I_C = 100\mu A, f = 1KHz, R_s = 1K\Omega$		4	dB
Switching characteristics					
Parameter	Symbol	Test conditions	Min	Max	Unit
Delay time	t_d	$V_{CC} = 30V, I_C = 150mA, V_{BE(off)} = 0.5V, I_{B1} = 15mA$		10	ns
Rise time	t_r			25	ns
Storage time	t_s	$V_{CC} = 30V, I_C = 150mA, I_{B1} = -I_{B2} = 15mA$		225	ns
Fall time	t_f			60	ns

Typical Characteristics

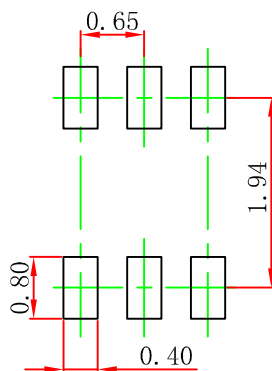


SOT-363 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.150	0.350	0.006	0.014
c	0.100	0.150	0.004	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.400	0.085	0.094
e	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
theta	0°	8°	0°	8°

SOT-363 Suggested Pad Layout



- Note:
1. Controlling dimension: in millimeters.
 2. General tolerance: $\pm 0.05\text{mm}$.
 3. The pad layout is for reference purposes only.

单击下面可查看定价，库存，交付和生命周期等信息

[>>DIOS\(迪恩思\)](#)