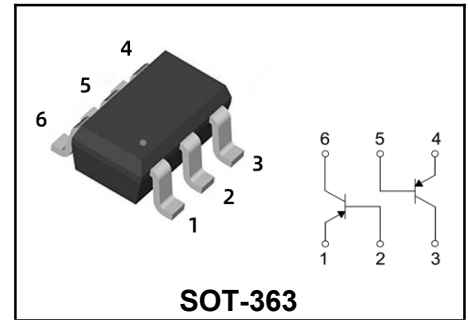


**Plastic-Encapsulate Transistors**

**DUAL TRANSISTOR (PNP+PNP)**

**FEATURES**

- ◆ Complementary to MMDT5551DW
- ◆ Small Surface Mount Package
- ◆ Ideal for Medium Power Amplification and Switching



<b>Marking Code</b>	
MMBT5401DW	2L

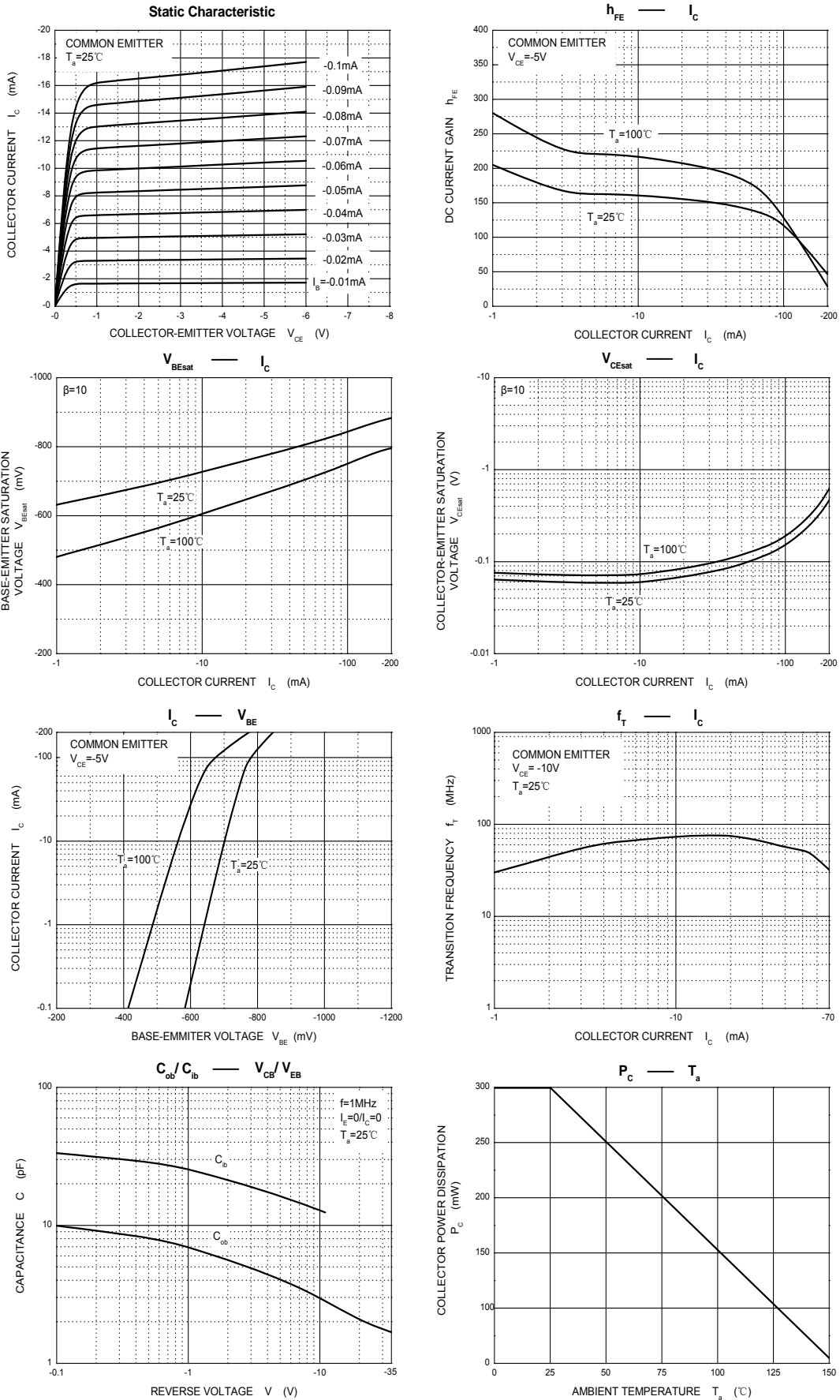
**MAXIMUM RATINGS (Ta=25°C unless otherwise noted)**

Parameter	Symbol	Value	Unit
Collector-Base Voltage	$V_{CBO}$	-160	V
Collector-Emitter Voltage	$V_{CEO}$	-150	V
Emitter-Base Voltage	$V_{EBO}$	-5	V
Collector Current	$I_C$	-600	mA
Collector Power Dissipation	$P_C$	300	mW
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	625	°C/W
Junction Temperature	$T_j$	150	°C
Storage Temperature	$T_{stg}$	-55 ~ +150	°C

**ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)**

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Collector-base breakdown voltage	$I_C = -100\mu A, I_E = 0$	$V_{(BR)CBO}$	-160			V
Collector-emitter breakdown voltage	$I_C = -1mA, I_B = 0$	$V_{(BR)CEO}$	-150			V
Emitter-base breakdown voltage	$I_E = -10\mu A, I_C = 0$	$V_{(BR)EBO}$	-5			V
Collector cut-off current	$V_{CB} = -120V, I_E = 0$	$I_{CBO}$			-50	nA
Emitter cut-off current	$V_{EB} = -3V, I_C = 0$	$I_{EBO}$			-50	nA
DC current gain	$V_{CE} = -5V, I_C = -1mA$	$h_{FE}$	50			
	$V_{CE} = -5V, I_C = -10mA$		60		300	
	$V_{CE} = -5V, I_C = -50mA$		50			
Collector-emitter saturation voltage	$I_C = -50mA, I_B = -5mA$	$V_{CE(sat)}$			-0.5	V
	$I_C = -10mA, I_B = -1mA$				-0.2	V
Base-emitter saturation voltage	$I_C = -50mA, I_B = -5mA$	$V_{BE(sat)}$			-1	V
	$I_C = -10mA, I_B = -1mA$				-1	V
Transition frequency	$V_{CE} = -10V, I_C = -10mA, f = 100MHz$	$f_T$	100			MHz
Collector output capacitance	$V_{CB} = -10V, I_E = 0, f = 1MHz$	$C_{ob}$			6	pF

Typical Characteristics



**Ordering information**

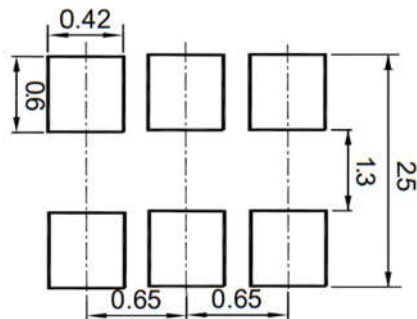
Package	Packing Description	Packing Quantity
SOT-363	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

**Package Dimensions**

**SOT-363**

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.8	1.1	32	43
A1	-	0.1	-	3.94
bp	0.20	0.30	7.87	11.81
c	0.10	0.25	3.94	9.84
D	1.8	2.2	70.87	86.61
E	1.15	1.35	45.28	53.15
e	1.3		51.18	
e1	0.65		25.6	
HE	2.0	2.2	78.74	86.6
Lp	0.15	0.45	5.90	17.71
Q	0.15	0.25	5.90	9.84
v	0.2		7.78	
w	0.2		7.78	
y	0.1		3.94	

**The recommended mounting pad size**



## Disclaimer

The information presented in this document is for reference only. GuangDong Youfeng Microelectronics Co.,Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise. The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices),YFW or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale. This publication supersedes & replaces all information previously supplied. For additional information, please visit our website <https://www.yfwdiode.com>, or consult YFW sales office for further assistance.