# MMDT3052DW (NPN+NPN) Silicon Epitaxial Planar Transistor

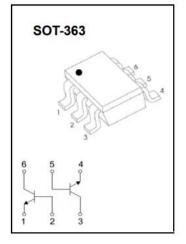
#### **Features**

• Each transistor elements are independent

#### **Applications**

• For low frequency amplify application

**MARKING: 5G** 



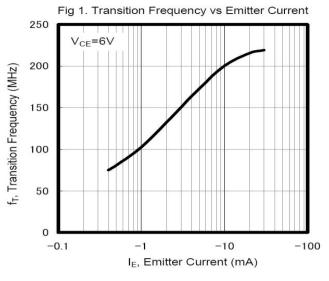
Parameter	Symbol	Value	Unit
Collector Base Voltage	V <sub>CBO</sub>	50	V
Collector Emitter Voltage	V <sub>CEO</sub>	50	V
Emitter Base Voltage	$V_{EBO}$	6	V
Collector Current	Ic	200	mA
Power Dissipation	P <sub>tot</sub>	150	mW
Junction Temperature	Tj	125	$^{\circ}$
Storage Temperature Range	T <sub>stg</sub>	- 55 to + 125	$^{\circ}$

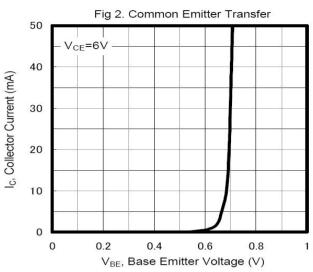
Absolute Maximum Ratings (T<sub>a</sub> = 25℃)

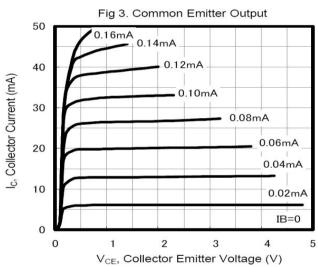
### Characteristics at $T_a = 25$ °C

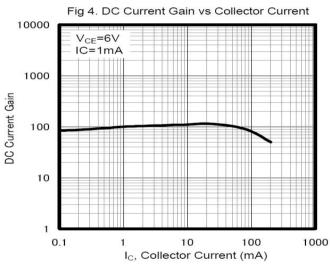
Parameter		Symbol	Min.	Тур.	Max.	Unit
	E -	h <sub>FE</sub>	90 120		- 240	
F	- 3	h <sub>FE</sub> h <sub>FE</sub>	200 350	- -	400 700	-
Collector Base Cutoff Current at V <sub>CB</sub> = 50 V		I <sub>CBO</sub>	-	-	100	nA
Emitter Base Cutoff Current at V <sub>EB</sub> = 6 V		I <sub>EBO</sub>	ı	-	100	nA
Collector Emitter Breakdown Voltage at I <sub>C</sub> = 100 µA		V <sub>(BR)CEO</sub>	50	-	-	V
Collector Emitter Saturation Voltage at $I_C = 100 \text{ mA}$ , $I_B = 10 \text{ mA}$		V <sub>CE(sat)</sub>	-	-	0.3	V
Transition Frequency at $V_{CE} = 6 \text{ V}$ , $-I_E = 10 \text{ mA}$		f <sub>T</sub>	-	200	-	MHz
Collector Output Capacitance at $V_{CB} = 6 \text{ V}$ , $f = 1 \text{ MHz}$		C <sub>ob</sub>	-	2.5	-	pF

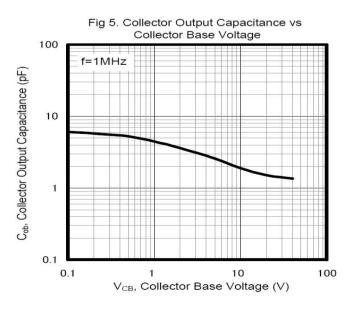
### **Electrical Characteristics Curves**







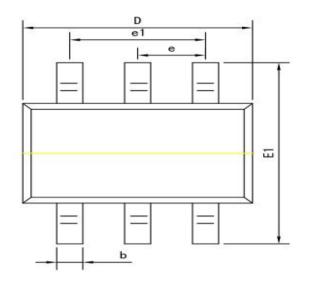


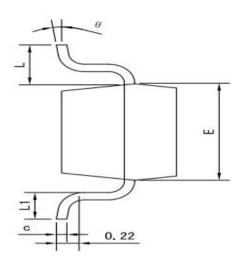


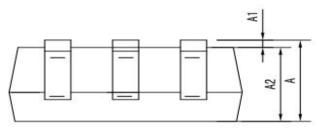


## Package outline dimensions

### SOT-363







Symbol	Dimension in Millimeters			
	Min	Max		
A	0.900	1.100		
A1	0.000	0.100		
A2	0.900	1.000		
b	0.150	0.350		
С	0.080	0.150		
D	2.000	2.200		
E	1.150	1.350		
E1	2.150	2.450		
е	0.650 TYP			
e1	1.200	1.400		
L	0.525 REF			
L1	0.260	0.460		
θ	0°	8°		

## **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bipolar Transistors - BJT category:

Click to view products by Hong Kong Chuangji manufacturer:

Other Similar products are found below:

619691C MCH4017-TL-H MMBT-2369-TR BC546/116 BC557/116 BSW67A NJVMJD148T4G NTE123AP-10 NTE153MCP NTE16

NTE195A NTE92 2N4401-A 2N6728 2SA1419T-TD-H 2SA2126-E 2SB1204S-TL-E 2SC2712S-GR,LF SP000011176 2N2907A 2N3904
NS 2N5769 2SC2412KT146S CPH6501-TL-E MCH4021-TL-E MJE340 Jantx2N5416 US6T6TR NJL0281DG 732314D CPH3121-TL-E

CPH6021-TL-H 873787E IMZ2AT108 MMST8098T146 UMX21NTR MCH6102-TL-E NJL0302DG 30A02MH-TL-E NTE13 NTE26

NTE282 NTE323 NTE350 NTE81 STX83003-AP JANTX2N2920L JANSR2N2222AUB CMLT3946EG TR 2SA1371D-AE