

MMDT3904 SOT-363 Plastic-Encapsulate Transistors

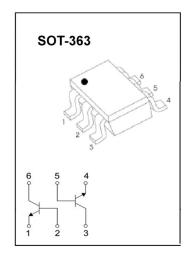
General description

SOT-363 Plastic-Encapsulate Transistors

FEATURES

- DUAL TRANSISTOR (NPN+NPN)
- Epitaxial planar die construction
- Ideal for low power amplification and switching

Symbol	Parameter	Value	Units
V сво	Collector-Base Voltage	60	V
V CEO	Collector-Emitter Voltage	40	V
V EBO	Emitter-Base Voltage	5	V
Ic	Collector Current -Continuous	0.2	А
Pc	Collector Power Dissipation	0.2	W
TJ	Junction Temperature	150	°C
Tstg	Storage Temperature	-55-150	°C

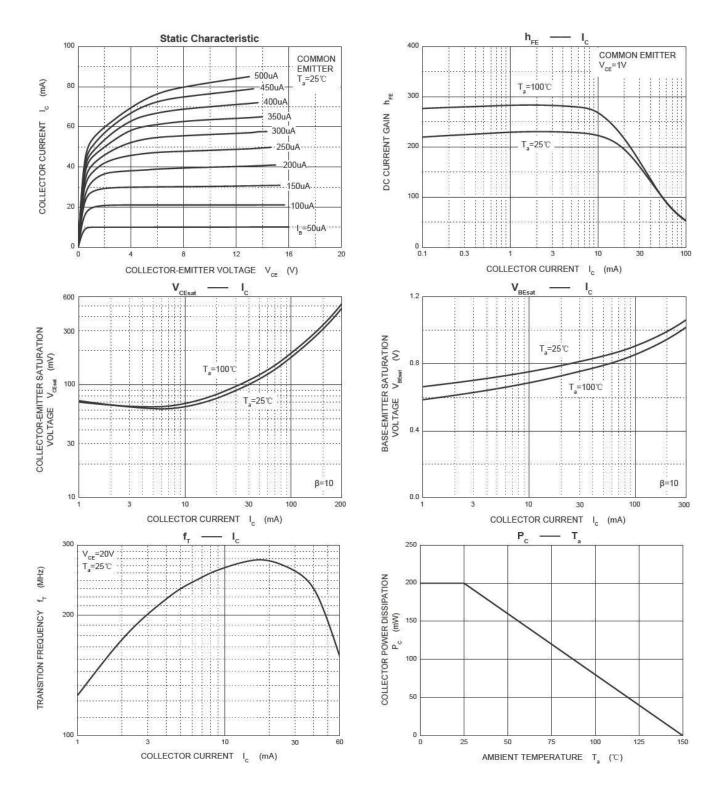


MARKING: K6N

Absolute Maximum Ratings(Ta=25°C unless otherwise specified)

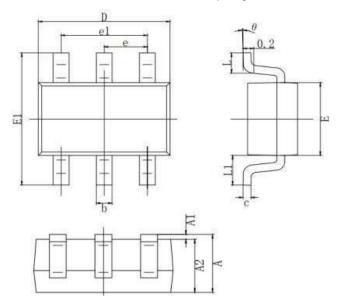
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	I _C =10μA,I _E =0	60			V
Collector-emitter breakdown voltage	V(BR)CEO	I _C =1mA,I _B =0	40			V
Emitter-base breakdown voltage	V(BR)EBO	I _E =10μA,I _C =0	5			V
Collector cut-off current	Ісво	V _{CB} =30V,I _E =0			0.05	μΑ
Emitter cut-off current	ІЕВО	V _{EB} =5V,I _C =0			0.05	μΑ
Collector cut-off current	ICEX	V _{CE} =30V,V _{BE(off)} =3V			0.05	μΑ
	hFE(1)	V _{CE} =1V,I _C =0.1mA	40			
	hFE(2)	V _{CE} =1V,I _C =1mA	70			
DC current gain	hFE(3)	V _{CE} =1V,I _C =10mA	100		300	
	hFE(4)	V _{CE} =1V,I _C =50mA	60			
	hFE(5)	V _{CE} =1V,I _C =100mA	30			
	VCE(sat)1	I _C =10mA,I _B =1mA			0.2	_ '
Collector-emitter saturation voltage	VCE(sat)2	I _C =50mA,I _B =5mA			0.3	
	V _{BE(sat)1}	I _C =10mA,I _B =1mA	0.65		0.85	
Base-emitter saturation voltage	V _{BE(sat)2}	I _C =50mA,I _B =5mA			0.95	
Transition frequency	f⊤	V _{CE} =20V,I _C =10mA,f=100MHz	300			MHz
Collector output capacitance	Cob	V _{CB} =5V,I _E =0,f=1MHz			4	pF
Noise figure	NF	V_{CE} =5 V , I_c =0.1 m A, f =1 k Hz, R_S =1 K Ω			5	dB
Delay time	td	Vcc=3V, VBE(off)=-0.5V			35	nS
Rise time	tr	$I_C=10\text{mA}$, $I_{B1}=-I_{B2}=1\text{mA}$			35	nS
Storage time	ts	V _{CC} =3V, I _C =10mA I _{B1} =-			200	nS
Fall time	tf	I _{B2} =1mA			50	nS







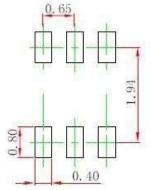
SOT-363 PACKAGE OUTLINE Plastic surface mounted package



	MILLIMETER		
SYMBOL	MIN	MAX	
A	0.900 1.10		
A1	0.000	0, 100	
A2	0.900 1.00		
b	0, 150	0, 350	
e	0,080	0.150	
D	2,000	2, 200	
E	1. 150	1.350	
E1	2.150	2, 450	
e	0.650 TYP.		
e1	1. 200 1. 400		
L	0.525 REF.		
L1	0.260	0 0.460	
θ	0*	8*	

Precautions: PCB Design

Recommended land dimensions for SOT-363. Electrode patterns for PCBs



Note:

- 1. Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
 3.The pad layout is for reference purposes only.



Important Notice and Disclaimer

DOESHARE has used reasonable care in preparing the information included in this document, but DOESHARE does not warrant that such information is error free. DOESHARE assumes no liability whatsoever for any damages incurred by you resulting from errors in or omissions from the information included herein.

DOESHARE no warranty, representation or guarantee regarding the documents, circuits and products specification, DOESHARE reservation rights to make changes for any documents, products, circuits and specifications at any time without notice.

Purchasers are solely responsible for the choice, selection and use of the DOESHARE products and services described herein, and DOESHARE assumes no liability whatsoever relating to the choice, selection or use of the products and services described herein.

No license, express or implied, by implication or otherwise under any intellectual property rights of DOESHARE.

Resale of DOESHARE products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by DOESHARE for the DOESHARE product or service described herein and shall not create or extend in any manner whatsoever, any liability of DOESHARE.

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 Doeshare 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 C4460 2N4401-A 2N6728 2SA1419T-TD-H 2SA2126-E 2SB1204S-TL-E 2SC2712S-GR,LF 2SC5488A-TL-H

2SD2150T100R SP000011176 2N2907A 2N3904-NS 2N5769 2SC2412KT146S 2SD1816S-TL-E CPH6501-TL-E MCH4021-TL-E

MJE340 US6T6TR NJL0281DG 732314D CPH3121-TL-E CPH6021-TL-H 873787E IMZ2AT108 UMX21NTR MCH6102-TL-E

NJL0302DG 2N3583 30A02MH-TL-E TN6717A NSV40301MZ4T1G NTE13 NTE26 NTE282 NTE323 NTE350 NTE81