

JAN, JTX, JTXV AVAILABLE CASE 654-07, STYLE 1

DUAL TRANSISTOR

PNP SILICON

Rating	Symbol	Value		Unit
Collector-Emitter Voltage	VCEO	60		Vdc
Collector-Base Voltage	VCBO	60		Vdc
Emitter-Base Voltage	VEBO	5.0		Vdc
Collector Current — Continuous	IC IC	600		mAdc
		One Die	Both Die Equal Power	
Total Device Dissipation @ T _A = 25°C Derate above 25°C	PD	500 2.9	600 3.4	mW mW/°C
Total Power Dissipation @ T _C = 25°C Derate above 25°C	PD	1.2 6.9	2.0 11.43	Watts mW/°C
Operating and Storage Junction Temperature Range	TJ, Tstg	- 65	°C	

Refer to MD2904,A for graphs.

ELECTRICAL CHARACTERISTICS (T _A = 25°C unless otherwise noted.) Characteristic	Symbol	Min	Max	Unit
OFF CHARACTERISTICS			:	
Collector-Emitter Breakdown Voltage(1) $(I_{C} = 10 \text{ mAdc}, I_{B} = 0)$	V(BR)CEO	60 ,		Vdc
Collector-Base Breakdown Voltage (I _C = 10 μ Adc, I _E = 0)	V(BR)CBO	60	_	Vdc
mitter-Base Breakdown Voltage ($I_E = 10 \ \mu Adc, I_C = 0$)	V(BR)EBO	5.0		Vdc
Collector Cutoff Current ($V_{CB} = 50 \text{ Vdc}, I_E = 0$)	СВО		20	nAdc
Emitter Cutoff Current ($V_{BE} = 3.0 \text{ Vdc}, I_C = 0$)	IEBO	_	100	nAdc
Collector 1 to Collector 2 Leakage Current (V1C-2C = ±50 Vdc	IC1-C2		± 1.0	nAdc
ON CHARACTERISTICS			-	
	hfe	40 75 40 100 40 100 20 50 40 100 40 50		-
Collector-Emitter Saturation Voltage(1) (IC = 150 mAdc, IB = 15 mAdc) (IC = 500 mAdc, IB = 50 mAdc)	V _{CE(sat)}	· -	0.4 1.6	V¢lc
Base-Emitter Saturation Voltage(1) ($I_C = 150 \text{ mAdc}$, $I_B = 15 \text{ mAdc}$) ($I_C = 500 \text{ mAdc}$, $I_B = 50 \text{ mAdc}$)	V _{BE(sat)}	_	1.3 2.6	Vdc
SMALL-SIGNAL CHARACTERISTICS				
Current-Gain — Bandwidth Product(2) ($I_C = 50 \text{ mAdc}, V_{CE} = 20 \text{ Vdc}, f = 100 \text{ MHz}$)	ft -	200	<u> </u>	MHz
Collector-Base Capacitance ($V_{CB} = 10 \text{ Vdc}, I_E = 0, f = 100 \text{ kHz}$)			8.0	pF
Emitter-Base Capacitance (VEB = 2.0 Vdc, IC = 0, f = 100 kHz)		·	-30	pF
SWITCHING CHARACTERISTICS (See Figure 1)				

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Delay Time	$(V_{CC} = 30 \text{ Vdc}, V_{BE(off)} = 0.5 \text{ Vdc},$	td	_	12	ns
	$I_{C} = 150 \text{ mAdc}, I_{B1} = 15 \text{ mAdc})$	tr		35	ns
Rise Time	(V _{CC} = 30 Vdc, I _C = 150 mAdc,	te		100	ns
Storage Time Fall Time	$I_{B1} = I_{B2} = 15 \text{ mAdc}$	tf		40	ns
Fall lime					

(1) Pulse Test: Pulse Width \leq 300 μ s, Duty Cycle \leq 2.0%.

(2) fT is defined as the frequency at which $|h_{fe}|$ extrapolates to unity.