

**2N1483 JAN, JTX**  
**2N1484 JAN, JTX**  
**2N1485 JAN, JTX**  
**2N1486 JAN, JTX**

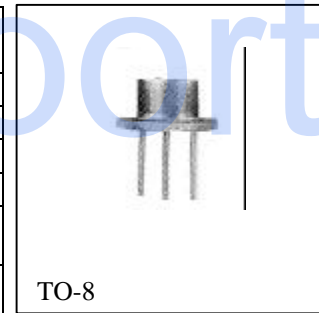


Processed per MIL-PRF-19500/180

**NPN SILICON MEDIUM-POWER TRANSISTOR**

**MAXIMUM RATINGS**

Ratings	Symbol	2N1483 2N1485	2N1484 2N1486	Units
Collector-Emitter Voltage	$V_{CEO}$	40	55	Vdc
Collector-Base Voltage	$V_{CBO}$	60	100	Vdc
Emitter-Base Voltage	$V_{EBO}$	12		Vdc
Collector Current -- Continuous	$I_C$	3.0		Adc
Total Power Dissipation @ $T_A = 25^{\circ}C$ <sup>(1)</sup> @ $T_C = 25^{\circ}C$ <sup>(2)</sup>	$P_T$	1.75		W
		25		W
Operating & Storage Junction Temperature Range	$T_J, T_{stg}$	-65 to +200		$^{\circ}C$



1) Derate linearly 0.010 W/ $^{\circ}C$  for  $T_A > 25^{\circ}C$

2) Derate linearly 0.143 W/ $^{\circ}C$  for  $T_C > 25^{\circ}C$

**ELECTRICAL CHARACTERISTICS**

Characteristics	Symbol	Min.	Max.	Unit
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**OFF CHARACTERISTICS**

Collector-Emitter Breakdown Voltage $I_C = 100$ mAdc	2N1483, 2N1485 2N1484, 2N1486	$V_{(BR)CEO}$	40 55	Vdc
Collector-Base Breakdown Voltage $I_C = 100$ $\mu$ Adc	2N1483, 2N1485 2N1484, 2N1486	$V_{(BR)CBO}$	60 100	Vdc
Collector-Emitter Breakdown Voltage $V_{EB} = 1.5$ Vdc, $I_C = 0.25$ mAdc	2N1483, 2N1485 2N1484, 2N1486	$V_{(BR)CEX}$	60 100	Vdc
Collector-Base Cutoff Current $V_{CB} = 30$ Vdc $V_{CB} = 50$ Vdc	2N1483, 2N1485 2N1484, 2N1486	$I_{CBO}$		15 15 $\mu$ Adc
Emitter-Base Cutoff Current $V_{EB} = 12$ Vdc		$I_{EBO}$		15 $\mu$ Adc

2N1483, 2N1484, 2N1485, 2N1486 JAN SERIES

**ELECTRICAL CHARACTERISTICS (con't)**

Characteristics	Symbol	Min.	Max.	Unit
<b>DC CHARACTERISTICS<sup>(3)</sup></b>				
Forward-Current Transfer Ratio $I_C = 750 \text{ mAdc}, V_{CE} = 4.0 \text{ Vdc}$ 2N1483, 2N1484 2N1485, 2N1486	$h_{FE}$	20 35	60 100	
Collector-Emitter Saturation Voltage $I_C = 750 \text{ mAdc}, I_B = 75 \text{ mAdc}$ $I_C = 750 \text{ mAdc}, I_B = 40 \text{ mAdc}$ 2N1483, 2N1484 2N1485, 2N1486	$V_{CE(sat)}$		1.20 0.75	Vdc
Base-Emitter Voltage $I_C = 750 \text{ mAdc}, V_{CE} = 4.0 \text{ Vdc}$	$V_{BE}$		2.0	Vdc
<b>DYNAMIC CHARACTERISTICS</b>				
Forward Current Transfer Ratio $I_C = 5.0 \text{ mAdc}, V_{CB} = 28 \text{ Vdc}$	$f_{hfb}$	600		kHz
Output Capacitance $V_{CB} = 10 \text{ Vdc}, I_E = 0, 100 \text{ kHz} \leq f \leq 1.0 \text{ MHz}$	$C_{obo}$		400	pF
<b>SWITCHING CHARACTERISTICS</b>				
Turn-On Time $V_{CC} = 12 \text{ Vdc}; R_C = 15.9 \Omega; I_{B0} = I_{B2} = 35 \text{ mAdc}; I_{B1} = 65 \text{ mAdc}$	$t_{on} + t_{off}$		25	$\mu\text{s}$

(3)Pulse Test: Pulse Width = 300 $\mu\text{s}$ , Duty Cycle  $\leq$  2.0%.