

2SD425-2SD426 – NPN 2SB555-2SB556 – PNP

High-reliability discrete products and engineering services since 1977

COMPLEMENTARY POWER TRANSISTORS

FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

MAXIMUM RATINGS T_A@ 25°C unless otherwise noted

Rating	Symbol	2SD425 2SB555	2SD426 2SB556	Unit
Collector to Base Voltage	V _{CBO}	140	120	V
Collector to Emitter Voltage	V _{CEO}	140	120	V
Emitter to Base Voltage	Vebo	5		V
Collector Current	lc	12		А
Emitter Current	IE	12		А
Collector Power Dissipation, Tc = 25°c	PD	100		W
Junction Temperature	Tı	150		°C
Storage Temperature Range	T _{stg}	-65 to 150		°C

ELECTRICAL CHARACTERISTICS @ 25°C unless otherwise noted

		Limits						
Characteristic	Symbol	2SD425 2SB555			2SD426 2SB556			Unit
		Min	Тур	Max	Min	Тур	Max	
Collector to Emitter Breakdown Voltage ($I_C = 0.1A$, $I_B = 0$)	V _{(BR)CEO}	140	-	-	120	-	-	v
Emitter to Base Breakdown Voltage $(I_E = -10 \text{mA}, I_C = 0)$	V _{(BR)EBO}	5	-	-	5	-	-	v
Collector to Emitter Saturation Voltage $(I_{C}=7A, I_{B}=0.7A) \\ (I_{C}=6A, I_{B}=0.6A)$	V _{CE(sat)}	-	- -	3.0 3.0	-	-	3.0 3.0	v
Base to On-Voltage $(I_c = 7A, V_{CE} = 5V)$	V _{BE(on)}	-	-	2.5	-	-	2.5	v
Collector Cutoff Current $(V_{CB} = 50V, I_E = 0)$	Ісво	-	-	0.1	-	-	0.1	mA
Emitter Cutoff Current (V _{EB} = 5V, I _C = 0)	I _{EBO}	-	-	0.1	-	-	0.1	mA
DC Current Gain (V _{CE} = 5V, I _C = 2A)	h _{FE}	40	-	140	40	-	140	-
Transition Frequency (I _c = 2A, V _{CE} = 5V)	f _T	-	5	-	-	5	-	v



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MECHANICAL CHARACTERISTICS

Case	ТО-3
Marking	Alpha-numeric
Pin out	See below



	TO-3				
	Inc	Inches		neters	
	Min	Max	Min	Max	
CD	-	0.875	-	22.220	
CH	0.250	0.380	6.860	9.650	
HT	0.060	0.135	1.520	3.430	
BW	-	1.050	×.	26.670	
HD	0.131	0.188	3.330	4.780	
LD	0.038	0.043	0.970	1.090	
LL	0.312	0.500	7.920	12.700	
BL	1.550	REF	39.370 REF		
MHS	1.177	1.197	29.900	30.400	
PS	0.420	0.440	10.670	11.180	
S1	0.655	0.675	16.640	17.150	