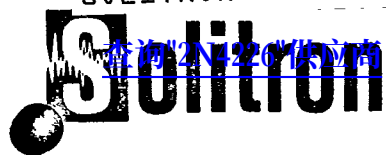


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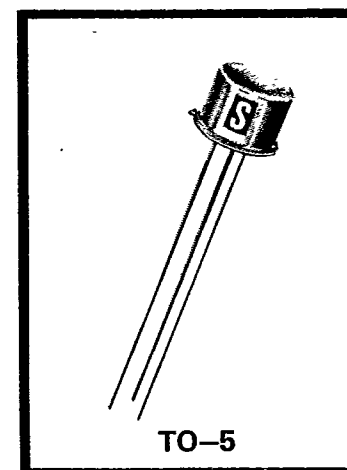
**DEVICES, INC.**

TRANSISTOR DIVISION

1177 BLUE HERON BLVD. • RIVIERA BEACH, FLA. 33404 • (305) 848-4311

2N4225**2N4226****3 AMP****NPN POWER TRANSISTORS**

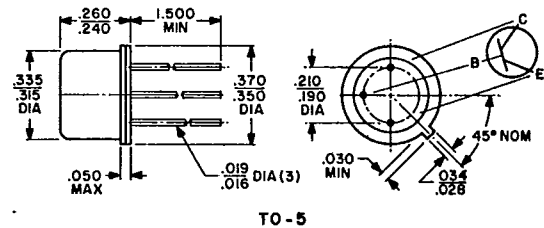
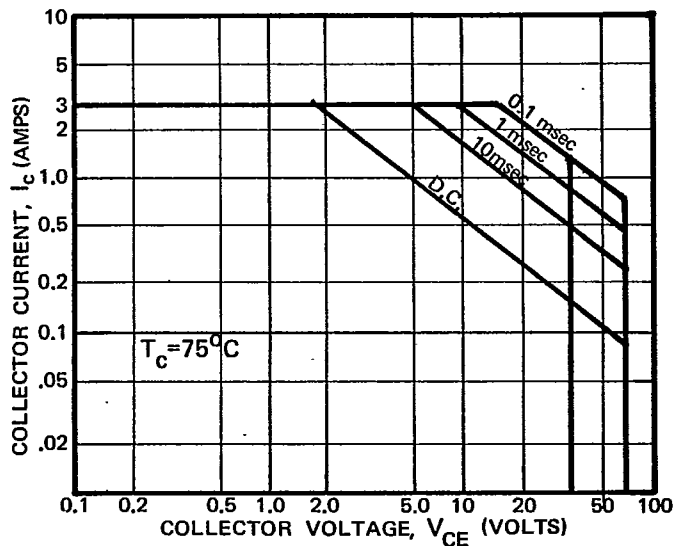
Solitron's 2N4225 and 2N4226 are Silicon NPN Power Transistors mounted in a TO-5 package. These devices are designed for use in high frequency pulse generators, high voltage switching circuits, small power supplies and solenoid driver circuits. Both devices can carry up to 3 Amps and can dissipate 5 Watts at 75°C.

**ABSOLUTE MAXIMUM RATINGS**

<u>SYMBOL</u>	<u>CHARACTERISTICS</u>	<u>2N4225</u>	<u>2N4226</u>
BV_{CBO}	Collector-Base Breakdown	80 V	100 V
BV_{CEO}	Collector-Emitter Breakdown	40 V	60 V
BV_{EBO}	Emitter-Base Breakdown	6.0 V	6.0 V
I_C	Collector Current	3.0 A	3.0 A
I_B	Base Current	0.5 A	0.5 A
P_t	Power Dissipation (100°C)	5.0 W	5.0 W
T_J	Junction Temperature Range	-65°C to +175°C	
T_{STG}	Storage Temperature Range	-65°C to +175°C	
θ_{J-C}	Thermal Resistance (Junction to Case)	20°C/W	

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[查询"2N4226"供应商](#)

CASE DRAWING

ELECTRICAL CHARACTERISTICS (25°C Ambient)**Static**

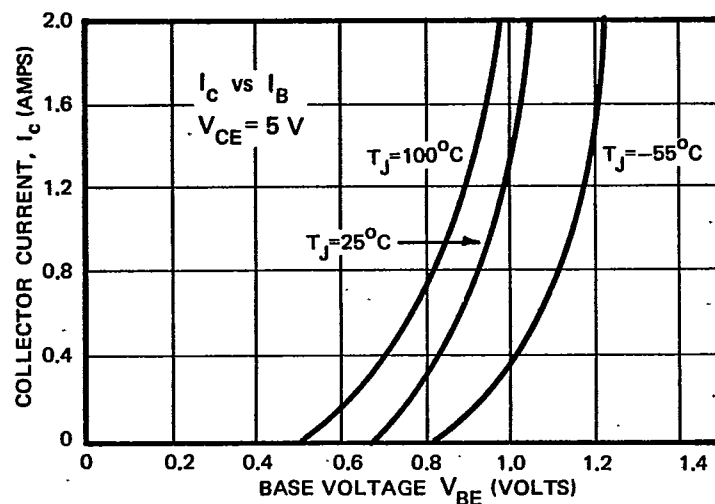
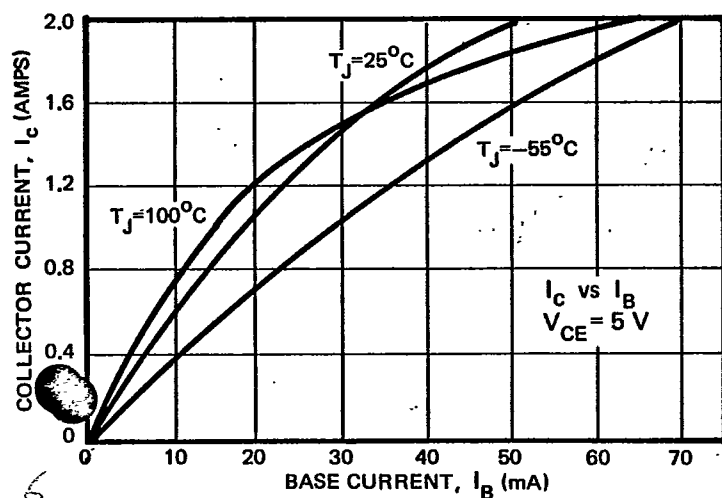
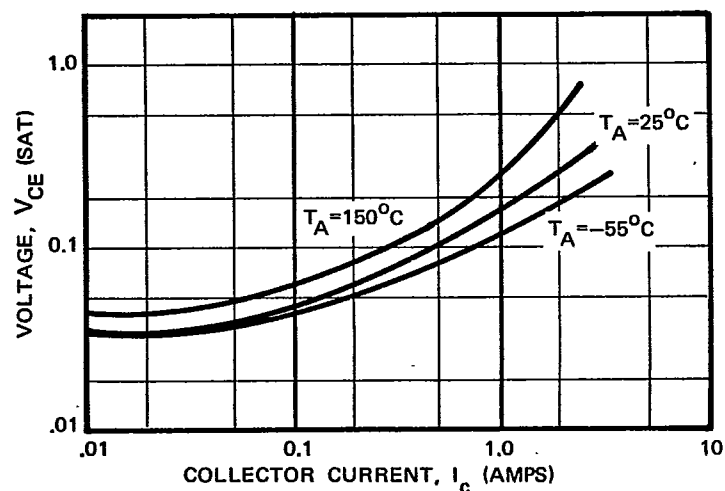
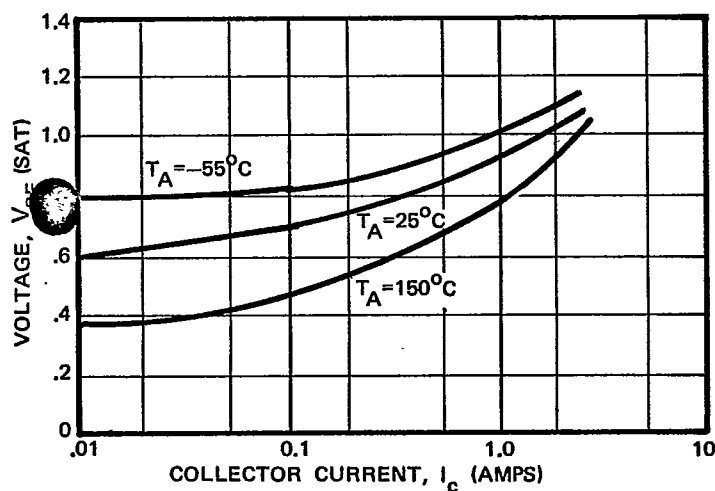
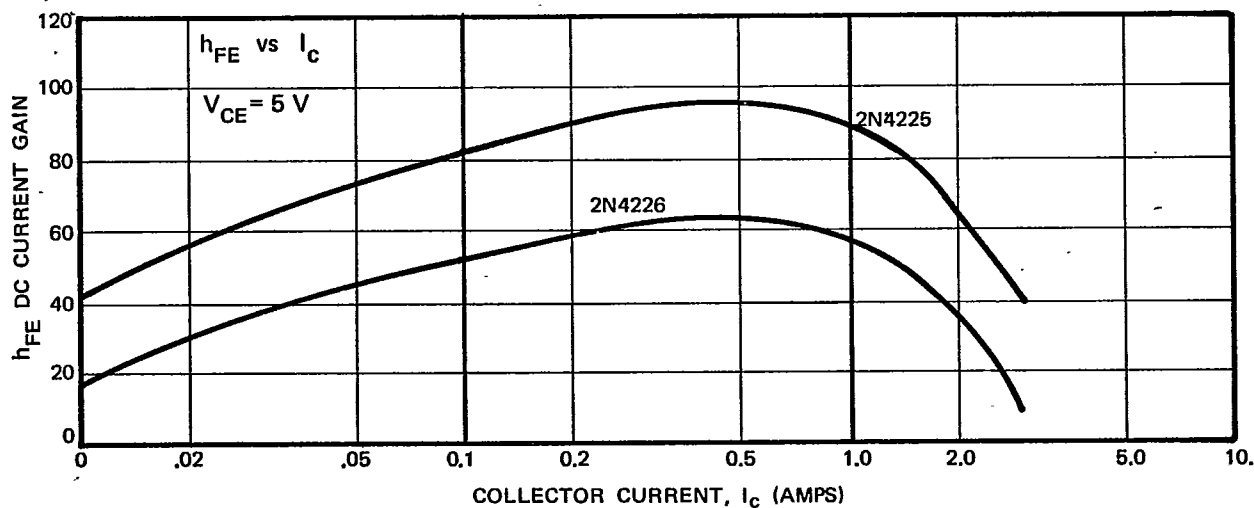
SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS	TYPE
BV_{CBO}	$I_c = 0.1 \text{ mA}, I_E = 0$	80	—	—	Volts	2N4225
	$I_c = 0.1 \text{ mA}, I_E = 0$	100	—	—	Volts	2N4226
BV_{CEO}	$I_c = 10 \text{ mA}, I_B = 0$	40	—	—	Volts	2N4225
	$I_c = 10 \text{ mA}, I_B = 0$	60	—	—	Volts	2N4226
BV_{EBO}	$I_E = 0.1 \text{ mA}, I_C = 0$	6.0	—	—	Volts	Both
I_{CBO}	$V_{CB} = 30 \text{ V}, I_E = 0$	—	0.01	0.1	μA	Both
h_{FE}	$I_c = 1.0 \text{ A}, V_{CE} = 5.0 \text{ V}$	40	—	150	—	Both
	$I_c = 2.0 \text{ A}, V_{CE} = 10 \text{ V}$	25	—	—	—	2N4225
	$I_c = 2.0 \text{ A}, V_{CE} = 10 \text{ V}$	20	—	—	—	2N4226
$V_{CE(sat)}$	$I_c = 1.0 \text{ A}, I_B = 0.1 \text{ A}$	—	0.32	0.5	Volts	Both
$V_{BE(sat)}$	$I_c = 1.0 \text{ A}, I_B = 0.1 \text{ A}$	—	—	1.25	Volts	Both

Dynamic

h_{fe}	$I_c = 0.25 \text{ A}, V_{CE} = 20 \text{ V}, f = 20 \text{ MHz}$	—	5	—	—	Both
t_d	$I_c = 1.5 \text{ A}, I_B = 0.15 \text{ A}$	—	2	—	nsec	Both
t_r	$I_c = 1.5 \text{ A}, I_B = 0.15 \text{ A}$	—	50	—	nsec	Both
t_s	$I_c = 1.5 \text{ A}, I_B = 0.15 \text{ A}$	—	50	—	nsec	Both
t_f	$I_c = 1.5 \text{ A}, I_B = 0.15 \text{ A}$	—	80	—	nsec	Both
C_{ob}	$V_{CB} = 10 \text{ V}, f = 1 \text{ MHz}, I_E = 0$	—	—	25	pf	Both
C_{ib}	$V_{EB} = 0.5 \text{ V}, f = 1 \text{ MHz}, I_C = 0$	—	—	150	pf	Both

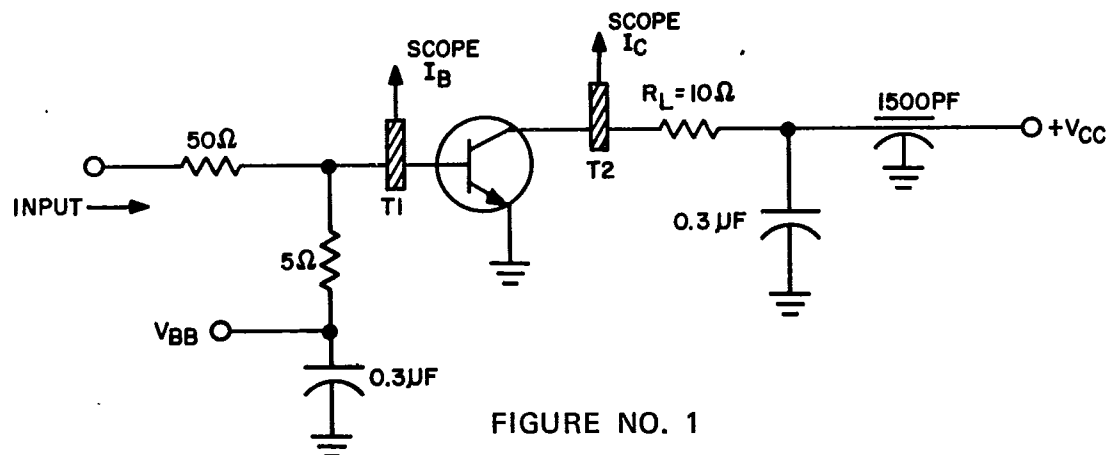
CHARACTERISTIC CURVES (ALL TYPES)

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[查询"2N4226"供应商](#)

Input drive is adjusted to 1.3 A if the pulse generator with 50Ω internal impedance is terminated into a 50Ω load.

$V_{BB} = -5\text{ V}$
 $V_{CC} = 22\text{ V}$
 $I_C = 1.5\text{ A}$
 $I_B (\text{typ}) = 150\text{ mA}$
 $t_p = 100\text{ nsec}$

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2N4225-4