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2N3738, 2N3739 NPN/2N6424, 2N6425 PNP

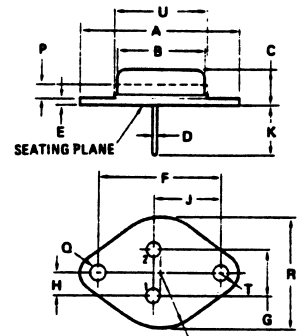
ELECTRICAL CHARACTERISTICS (T_C = 25°C unless otherwise noted.)

Characteristic	Symbol	Min	Max	Unit
*OFF CHARACTERISTICS				
Collector-Emitter Sustaining Voltage (1) (I _C = 5.0 mA, I _B = 0)	V _{CEO(sus)}	225 300	—	Vdc
	2N3738, 2N6424 2N3739, 2N6425			
Collector-Emitter Cutoff Current (V _{CE} = 125 Vdc, I _B = 0) (V _{CE} = 200 Vdc, I _B = 0)	I _{CEO}	— —	0.25 0.25	mA
	2N3738, 2N6424 2N3739, 2N6425			
Collector-Base Cutoff Current (V _{CB} = 250 Vdc, I _E = 0) (V _{CB} = 325 Vdc, I _E = 0)	I _{CBO}	— —	0.1 0.1	mA
	2N3738, 2N6424 2N3739, 2N6425			
Collector Cutoff Current (V _{CE} = 250 Vdc, V _{EB(off)} = 1.5 Vdc) (V _{CE} = 300 Vdc, V _{EB(off)} = 1.5 Vdc) (V _{CE} = 125 Vdc, V _{EB(off)} = 1.5 Vdc, T _C = 100°C) (V _{CE} = 200 Vdc, V _{EB(off)} = 1.5 Vdc, T _C = 100°C)	I _{CEV}	— — — —	0.5 0.5 1.0 1.0	mA
	2N3738, 2N6424 2N3739, 2N6425 2N3738, 2N6424 2N3739, 2N6425			
Emitter-Base Cutoff Current (V _{EB} = 6.0 Vdc)	I _{EBO}	—	0.1	mA
*ON CHARACTERISTICS				
DC Current Gain (1) (I _C = 50 mA, V _{CE} = 10 Vdc) (I _C = 100 mA, V _{CE} = 10 Vdc) (I _C = 250 mA, V _{CE} = 10 Vdc)	h _{FE}	30 40 25	— 200 —	—
Collector-Emitter Saturation Voltage (1) (I _C = 250 mA, I _B = 25 mA)	V _{CE(sat)}	—	2.5	Vdc
Base-Emitter "ON" Voltage (1) (I _C = 100 mA, V _{CE} = 10 Vdc)	V _{BE(on)}	—	1.0	Vdc
SMALL SIGNAL CHARACTERISTICS				
Current-Gain — Bandwidth Product (2) (I _C = 100 mA, V _{CE} = 10 Vdc, f = 10 MHz)	f _T	10	—	MHz
*Output Capacitance (V _{CB} = 100 Vdc, I _E = 0, f = 100 kHz)	C _{ob}	—	20	pF
*Small-Signal Current Gain (I _C = 100 mA, V _{CE} = 20 Vdc, f = 1.0 kHz)	h _{fe}	35	—	—

*Indicates JEDEC Registered Data

(1) Pulse Test: Pulse Width ≤ 300 μs, Duty Cycle ≤ 2%.

(2) f_T = |h_{fe}| • frequency

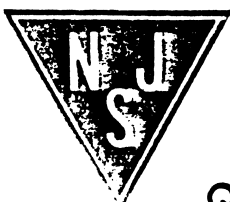


STYLE 1:
PIN 1: BASE
2: EMITTER
CASE: COLLECTOR

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
B	11.94	12.70	0.470	0.500
C	8.35	8.64	0.250	0.340
D	0.71	0.88	0.028	0.034
E	1.27	1.91	0.050	0.075
F	24.33	24.43	0.958	0.962
G	4.83	5.33	0.190	0.210
H	2.41	2.87	0.095	0.105
J	14.48	14.99	0.570	0.590
K	9.14	—	0.360	—
P	—	1.27	—	0.050
Q	3.61	3.96	0.142	0.152
S	—	6.35	—	0.250
T	—	3.68	—	0.145
U	—	15.75	—	0.620

All JEDEC Dimensions and Notes Apply.

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Quality Semi-Conductors