

NUMERICAL INDEX

Numerical Listing of EIA-Registered 2N and 3N Type Numbers and Short-Form specifications for Bi-Polar Transistors.

This table serves two functions. It provides a complete listing of EIA-registered 2N and 3N type numbers, for device identification, and gives short-form specifications for bi-polar transistors. Type numbers for devices other than bi-polar transistors (i.e. thyristors, field-effect transistors, etc.), may be listed in blocks (2N — thru 2N —) with reference to subsequent tables where such devices are sequentially tabulated and short-form specifications are given.

KEY

Collector-Emitter Saturation Voltage at Specified Collector Current
 I_c Units:
A = Amps
M = milliamps

TYPE	MATERIAL POLARITY	REPLACE- MENT	REF.	USE	MAXIMUM RATINGS				ELECTRICAL CHARACTERISTICS					
					P_d @ 25°C	Ref Point	T_J °C	V_{CBO} (volts)	V_{CE} - Subscript (volts)	h_{FE} @ I_c (min) (max)	Units	$V_{CE(SAT)}$ @ I_c (volts)	Units	h_{f-} Subscript
<p>Numerical Listing of 2N and 3N Registered Type Numbers</p> <p>S = Silicon G = Germanium</p> <p>P = PNP N = NPN</p> <p>Type number of recommended replacement or of nearest electrical equivalent fully characterized in this book</p> <p>Reference device number indicates specific Data Sheet on which device is characterized</p>					<p>Common-Emitter DC Short-Circuit Forward-Current Transfer Ratio at Specified Collector Current</p> <p>I_c Units: A = Amps M = milliamps * = microamps N = nanoamps</p> <p>Maximum Collector-Emitter Voltage (Subscript Identifies Condition)</p> <p>Subscript: O = V_{CEO} = Base Open R = V_{CER} = Specified Resistance S = V_{CES} = Base Shorted V = V_{CEV} = Used when only voltage bias is used X = V_{CEX} = Base-Emitter Back Biased U = V_{CE} = Termination Undefined</p>					<p>Small-Signal Forward-Current Transfer Ratio (E, B or C defines the parameter)</p> <p>E = h_{fe} = Common-Emitter Current Transfer Ratio B = h_{fb} = Common-Base Current Transfer Ratio C = h_{fc} = Common-Collector Current Transfer Ratio</p>				
<p>APPLICATION CODE</p> <p>A = Amplifier AH = Amplifier, High frequency AHP = Amplifier, High frequency power AL = Amplifier, Light sensitive AM = Amplifier, Multiple device AP = Amplifier, Power S = Switch SC = Switch, Chopper SH = Switch, High speed SHP = Switch, High speed power SP = Switch, Power</p>					<p>CUTOFF FREQUENCY</p> <p>Units: K = KHz M = MHz G = GHz</p> <p>(B, E, M or T Indicate the Parameter)</p> <p>B = h_{fb} = f_{ab} = Common-Base Cutoff Frequency E = h_{fe} = f_{ae} = Common-Emitter Cutoff Frequency M = f_{max} = Maximum Frequency of Oscillations T = f_r = Current Gain - Bandwidth Product</p>									
<p>Power Dissipation at 25°C</p> <p>Units: M = milliwatts W = Watts</p> <p>Ref. Point: A, C, J, Indicates Ambient, Case, or Junction</p>					<p>Maximum Collector - Base Voltage</p> <p>Maximum Operating Junction Temperature</p>									