Annex 2

# 2N2907 PNP

| | | TEST | 5 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|
| | | CARACTERISTICS | Collector-Base Cut-off Curent | A.C Forward Curent Transfer Ratio | Output capacitance | Turn-on Time | Turn-off Time |
| | | MIL-STD-750 TEST METHOD | 3036 | 3206 | 3236 | | |
| | | SYMBOL | Icbo | Hfe | Cobo | Ton | Toff |
| | | TEST CONDITIONS | Tam= +150c° Vcb= - 50V Ic=0mA | Ic= - 50mA Vce= - 20V F=100MHz | Vcb= - 10v Ie=0A 100 KHz< f < 1 MHz | Vcc= - 30v Ic= - 150mA Ib1= - 15mA | Vcc= - 30v Ic= - 150mA Ib1=Ib2= -15mA |
| | | LIMITS | < 10µA | > 2.0 | < 8.0 pF | < 45 ns | < 300 ns |
| | | | Na | - | Pf | ns | ns |
| 576 analyses parts (50 analyses parts / pilote lot) | 4.9440.002 W206144 LP640 | MIN | 10 (29)* | 2.4 (2.6) | 5.4 (5.6) | 17 (18) | 252 (264) |
| | | MOY | 36 (36) | 2.8 (2.7) | 5.7 (5.6) | 20 (19) | 271 (273) |
| | | MAX | 84 (42) | 3.4 (2.9) | 5.9 (5.7) | 24 (20) | 291 (290) |
| 596 analyses parts (50 analyses parts / pilote lot) | 4.9648.001 W214705 LP719 | MIN | 15 (23) | 2.5 (2.5) | 4.8 (5.6) | 18 (18) | 220 (221) |
| | | MOY | 31 (29) | 2.6 (2.6) | 5.4 (5.7) | 21(20) | 241 (240) |
| | | MAX | 54 (38) | 2.9 (2.7) | 6.1 (5.9) | 24 (20) | 264 (256) |
| 256 analyses parts (50 analyses parts / pilote lot) | 4.9724.007 W216461 LP724 | MIN | 14 (23) | 2.5 (2.5) | 4.9 (5.6) | 19 (19) | 224 (226) |
| | | MOY | 29 (34) | 2.6 (2.6) | 5.4 (5.7) | 21 (20 ) | 242 (242) |
| | | MAX | 51 (42) | 2.8 (2.9) | 5.9 (5.9) | 24 (21) | 254 (263) |

# 2N2222 NPN

| | | TEST | 4 | 9 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|
| | | CARACTERISTICS | Collector-Base Cut-off Curent | D.C Forward Curent Transfer Ratio 2 | A.C Forward Curent Transfer Ratio | Output capacitance | Turn-on Time | Turn-off Time |
| | | MIL-STD-750 TEST METHOD | 3036 | 3076 | 3206 | 3236 | 3251 Cond B | 3251 Cond B |
| | | SYMBOL | Icbo | Hfe2 | Hfe | Cobo | Ton | Toff |
| | | TEST CONDITIONS | Tam= +150c° Vcb=60v | Tam= - 55c° Ic =10 mA Vce = 10V | Ic=20mA Vce=20V F=100MHz | Tam= +25°c Vcb=10v Ie=0A 100 KHz< f < 1 MHz | Vcc=30v Ic=150mA Ib1=15mA | Vcc=30v Ic=150mA Ib1=Ib2=15mA |
| | | LIMITS | < 10µA | > 35 | 3.0 < x < 10 | < 8.0 pF | < 35 ns | < 285 ns |
| | | | Na | - | - | | ns | ns |
| 732 analyses parts (50 analyses parts / pilote lot) | 4.9614.001 W210874 LP653 | MIN | 3 (20) | 91 (93) | 3.1 (3,1) | 3.3 (3.7) | 17 (19) | 200 (198) |
| | | MOY | 25 (25) | 113 (109) | 3.4 (3,3) | 3.9 (3.8) | 21 (19) | 217 (217) |
| | | MAX | 61 (32) | 151 (121) | 3.9 (3,4) | 4.0 (3.9) | 26 (20) | 239 (236) |
| 704 analyses parts (50 analyses parts / pilote lot) | 4.9723.001 W216348 LP704 | MIN | 5 (15) | 81 (77) | 3,1 (3,4) | 3,4 (3.9) | 16 (18) | 198 (217) |
| | | MOY | 19 (22) | 130 (119) | 3.2 (3,6) | 3.7 (4.0) | 19 (19) | 228 (228) |
| | | MAX | 51 (28) | 166 (145) | 3.6 (3,8) | 4.4 (4.1) | 23 (19) | 258 (244) |
| 420 analyses parts (50 analyses parts for pilote lot) | 4.9649.001 W215454 LP861 | MIN | 11 (22) | 99 (88) | 3,1 (3,3) | 3.2 (4.1) | 17 (17) | 224 (250) |
| | | MOY | 21 (27) | 117 (113) | 3.2 (3,5) | 3.7 (4.2) | 18 (18) | 245 (258) |
| | | MAX | 34 (30) | 136 (130) | 3.6 (3,7) | 4.3 (4.3) | 22 (18) | 262 (270) |

* ( ) pilote lot