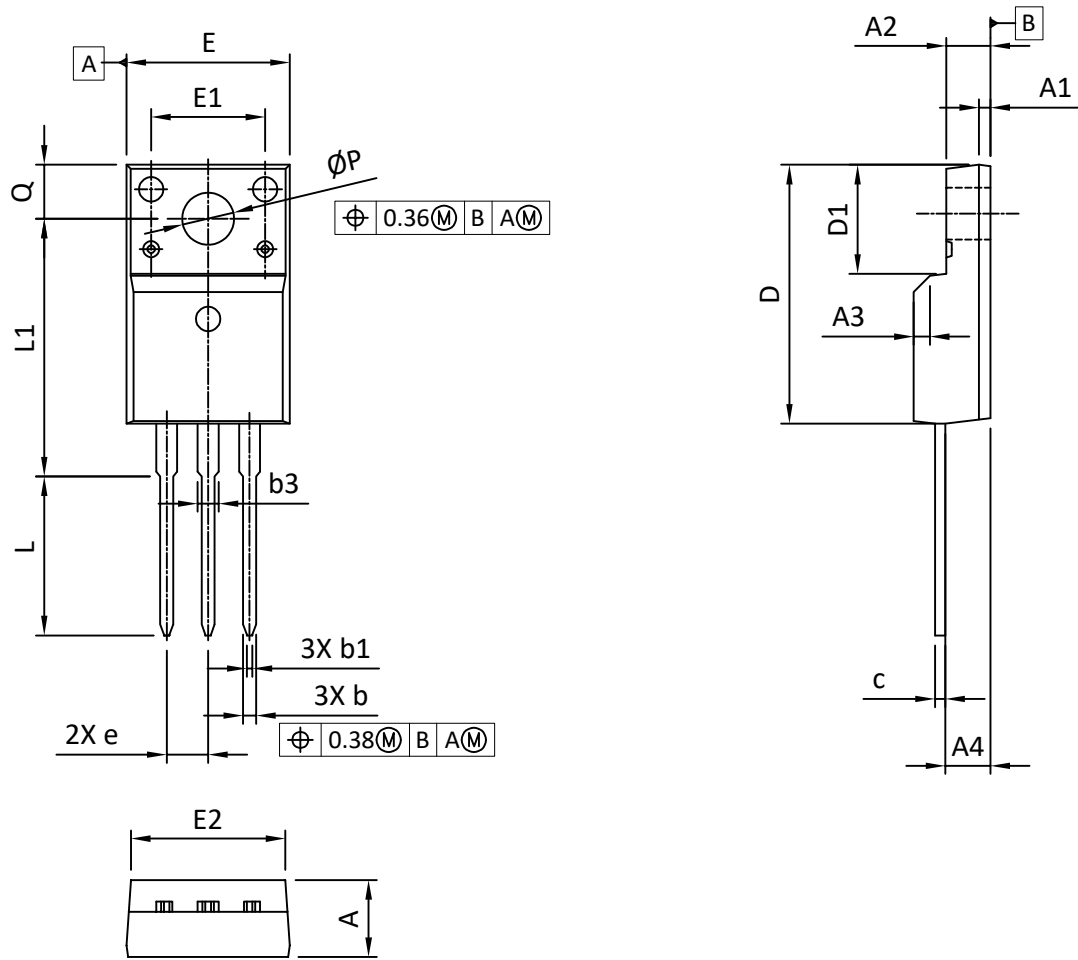
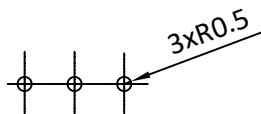




TO220FL PACKAGE OUTLINE



RECOMMENDATION OF HOLE PATTERN



UNIT: mm

SYMBOLS	DIM. IN MM			DIM. IN INCH		
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.
A	4.500	4.700	4.900	0.177	0.185	0.193
A1	-	0.700	-	-	0.028	-
A2	2.340	2.540	2.740	0.092	0.100	0.108
A3	1x45°			1x45°		
A4	2.560	2.760	2.960	0.101	0.109	0.117
b	0.700	0.800	0.900	0.028	0.031	0.035
b1	0.250	0.350	0.450	0.010	0.014	0.018
b3	1.180	1.280	1.470	0.046	0.050	0.058
c	0.450	0.500	0.600	0.018	0.020	0.024
D	15.670	15.870	16.070	0.617	0.625	0.633
D1	6.480	6.680	6.880	0.255	0.263	0.271
e	2.54BSC			0.1BSC		
E	9.960	10.160	10.360	0.392	0.400	0.408
E1	-	7.000	-	-	0.276	-
E2	9.260	9.460	9.660	0.365	0.372	0.380
L	9.550	9.750	9.950	0.376	0.384	0.392
L1	15.600	15.800	16.000	0.614	0.622	0.630
Q	3.200	3.300	3.400	0.126	0.130	0.134
$\phi P$	3.080	3.180	3.280	0.121	0.125	0.129

NOTE

1. PACKAGE BODY SIZES EXCLUDE MOLD FLASH AND GATE BURRS. MOLD FLASH SHOULD BE LESS THAN 6 MIL.
2. TOLERANCE 0.100 MILLIMETERS UNLESS OTHERWISE SPECIFIED.
3. CONTROLLING DIMENSION IS MILLIMETER. CONVERTED INCH DIMENSIONS ARE NOT NECESSARILY EXACT.