

EPC SPACE PLASTIC DEVICES SCREENING FLOW

	DESCRIPTION	TEST METHOD	Space Level	JANTXV Level	Lite Level	Developmental
1	Internal visual (pre-mold) inspection	2072	100%	100%	100%	100%
2	Temperature cycling	1051	20 cycles -55C TO 150C	20 cycles -55C TO 150C	20 cycles -55C TO 150C	20 cycles -55C TO 150C
3	Initial electrical parameters	3411 3413 3421 3404	100%	100%	100%	100%
4	LASER MARK AND SERIALIZATION	P-940-033	100%	100%	100%	
5	PRE HTGB electrical parameters	3411 3413 3421 3404	100%	100%	100%	
6	HTGB	80% VGS, VDS=0, 150C, 48 HOURS	100%	100%	100%	
7	POST HTGB electrical parameters	3411 3413 3421 3404	100%	100%	100%	
8	POST HTGB DELTA	IGSSF, IGSSR, IDSS, VTH, RDSON	100%	NA	NA	
9	PDA	3411 3413 3421 3404	5% MAXIMUM	10% MAXIMUM	NA	
10	HTRB	80% VDS, VGS=0, 150C,	100% 240 HOURS	100% 160 HOURS	100% 48HOURS	
11	POST HTRB electrical parameters	3411 3413 3421 3404	100%	100%	100%	
12	POST HTRB DELTA	IGSSF, IGSSR, IDSS, VTH, RDSON	100%	NA	NA	
13	PDA	3411 3413 3421 3404	5% MAXIMUM	10% MAXIMUM	NA	
14	125C electrical parameters	3411 3413 3421 3404	100%	100%	NA	
15	-55C electrical parameters	3411 3413 3421 3404	100%	100%	NA	
16	High temperature life Non operating life (stabilization bake)	1032	24 HOURS	24 HOURS	24 HOURS	
17	DYNAMIC RDSON TEST	P-301-051	100%	100%	100%	
18	X-RAY	2076	100%	GO/NO GO	GO/NO GO	
19	ACOUSTIC MICROSCOPY	JSTD-035 JSTD-020	22	22	NA	
20	LASER MARK	P-940-033	100%	100%	100%	
21	External visual	2071	100%	100%	100%	100%
QUALITY CONFORMANCE INSPECTIONS						
A	GROUP A	QCI	YES	YES	YES	
B	GROUP B	QCI	YES	YES	NO	
C	GROUP C	QCI	YES	No	NO	
D	GROUP D	QCI	YES	YES	YES	
E	GROUP E	QCI	YES	NO	NO	