

The documentation and process conversion measures necessary to comply with this amendment shall be completed by 12 May 1996

INCH-POUND

MIL-S-19500/552A(USAF)  
 AMENDMENT 2  
 12 February 1996  
 SUPERSEDING  
 AMENDMENT 1  
 25 January 1995

MILITARY SPECIFICATION

SEMICONDUCTOR DEVICE, DIODE, SILICON, TRANSIENT VOLTAGE SUPPRESSOR  
 TYPES 1N6469 THROUGH 1N6476  
 JAN, JANTX, AND JANTXV

This amendment forms a part of MIL-S-19500/552A(USAF), dated 27 December 1993, and is approved for use by all Departments and Agencies of the Department of Defense.

Preamble, delete and substitute as printed above.

PAGE 3

Figure 1, dimension table and notes; delete and substitute as follows:

Ltr	Dimensions				Notes
	Inches		Millimeters		
	Min	Max	Min	Max	
$\phi B$	.150	.185	3.81	4.70	3
$\phi D$	.037	.042	0.94	1.07	
G	.150	.375	3.81	9.53	3
L	.900	1.300	22.86	33.02	
L <sub>1</sub>		.050		1.27	4

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Package contour optional within  $\phi B$  and length G. Heat slugs, if any, shall be included within this cylinder but shall not be subject to minimum limit of  $\phi B$ .
4. Within this zone lead, diameter may vary to allow for lead finishes and irregularities other than heat slugs."

PAGE 4

4.3, screen 11, measurement column; delete "Iadvance down .035R" and substitute "I<sub>D</sub>". Screen 13, measurement column; delete " $\Delta I_D$ " and substitute " $\Delta I_D$ ".

MIL-S-19500/552A(USAF)  
AMENDMENT 2

PAGE 5

\* 4.4.2.1, B5; delete " $R_{\theta JL} \leq 50^\circ\text{C/W}$ ,  $+25^\circ\text{C} \leq T_L \leq +35^\circ\text{C}$ " and substitute " $R_{\theta JA} \leq 50^\circ\text{C/W}$ ,  $+25^\circ\text{C} \leq T_A \leq +35^\circ\text{C}$ ".

PAGE 6

TABLE I, subgroup 2, reverse current, maximum limits column; delete "column 2 of table III" and substitute "column 5 of table III".

TABLE I, subgroup 4, forward voltage,  $V_f$ , minimum limits column; delete "1.5" and in maximum limits column, add "1.5".

TABLE I, subgroup 4, forward voltage,  $V_{FM}$ , minimum limits column; delete "4.8" and in maximum limits column, add "4.8".

PAGE 7

TABLE II, step 1, inspection column, reverse current; delete "standby". Step 3, inspection column, reverse current; delete "standby"; in the symbol column, delete "1/". Step 4, in the symbol column, delete "1/".

PAGE 8

TABLE III, delete and substitute as follows:

TABLE III. Electrical characteristics.

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6	Col 7		Col 8	Col 9	Col 10
	$V_{(BR)}$ at $I_{(BR)}$ min V dc	$I_{(BR)}$ $t_p$ =300ms duty cycle $\leq 2\%$ mA dc	$V_{RWM}$ V(PK)	$I_D$ at $V_{RWM}$ $\mu\text{A}$ dc	$V_C$ at $I_{pp}$ for $t_p$ =1 ms V (PK)	$I_p$ $t_p$ = 20 $\mu\text{s}$ $t_p$ = 1 ms $t_r$ = 8 $\mu\text{s}$ $t_r$ = 10 $\mu\text{s}$ A (PK)        A (PK)		$\alpha V_{(BR)}$ at $I_{(BR)}$ % / °C	$V_{(BR)}$ min at $I_{(BR)}$ $T_A =$ -55°C V dc	$V_{CF}$ at $t_p = 1$ ms mA(PK) = per col 7 inverse polarity V (PK)
1N6469	5.6	50	5	5,000	9.0	945	167	-.03,+.045	5.4	-3.5
1N6470	6.5	50	6	5,000	11.0	775	137	+.060	6.2	-3.2
1N6471	13.6	10	12	1,000	22.6	374	66	+.085	12.7	-3.8
1N6472	16.4	10	15	1,000	26.5	322	57	+.085	15.3	-3.8
1N6473	27.0	5	24	100	41.4	206	36.5	+.096	24.9	-3.6
1N6474	33.0	1	30.5	5	47.5	190	32	+.098	30.2	-3.6
1N6475	43.7	1	40.3	5	63.5	136	24	+.101	40.0	-3.5
1N6476	54.0	1	51.6	5	78.5	106	19	+.103	48.5	-3.4

MIL-S-19500/552A(USAF)  
AMENDMENT 2

PAGE 12

The margins of this amendment are marked with an asterisk or vertical lines to indicate where changes (additions, modifications, corrections, deletions) from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

CONCLUDING MATERIAL

Custodian:  
Air Force - 17

Preparing activity:  
DLA - ES

Review activities:  
Air Force - 13, 19, 85, 99

(Project 5961-F133)

