



Technical Report Preprint

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J573a

SOCIETY OF AUTOMOTIVE ENGINEERS, INC.,
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LAMP BULBS AND SEALED UNITS - SAE J573a

SAE Standard

Report of Lighting Division approved March 1918 and last revised by Lighting Committee November 1963.

Table 1 - Motor Vehicle Electric Lamp Bulbs (for New Designs or Original Equipment)

Typical Services ^b	Trade No.	Design			Rated Average Lab Life at Design Volts, hr	Filament			Bulb Type ^a	Max Overall Length, in.	Base		Plane of Pins with Respect to Filament, deg	
		cp	Volts	Amps		Type	Light Center Length (LCL), in.	LCL Tolerance, ±			Axial Alignment Tolerance, ±	Type ^a		Description
6-Volt Circuits														
A,C	51	1	7.5	0.22	1000	C-2R	0.500	0.093	0.093	G-3-1/2	0.937	A-1	Min Bay.	-
A	55	2	7.0	0.41	500	C-2R	0.562	0.093	0.093	G-4-1/2	1.062	A-1	Min Bay.	-
L,M,P,T	63	3	7.0	0.63	1000	C-2R	0.750	0.093	0.093	G-6	1.437	B-1	SC Bay.	-
E	81 ^e	6	6.5	1.02	500	C-2R	0.750	0.093	0.093	G-6	1.437	B-1	SC Bay.	-
E	209	15	6.5	1.78	100	C-6	1.062	0.062	0.062	B-6	1.750	B-1	SC Bay.	90
E	210	15	6.5	1.78	100	C-6	1.062	0.062	0.062	B-6	1.750	B-2	DC Bay.	90
E,D,S	1129	21	6.4	2.63	200	C-6	1.250	0.040	0.040	S-B	2.000	B-1	SC Bay.	90
B	1133	32	6.2	3.91	200	C-2R	1.250	0.040	0.040	RP-11	2.250	B-1	SC Bay.	90
D,L,S,T,P	1154	21	6.4	2.63	200	C-6	1.250	0.040	0.040	S-8	2.000	C-2	DC Bay.	90
		3	7.0	0.75	1000	C-6	d	d	d	-	-	-	-	-
12-Volt Circuits														
A,C	53	1	14.4	0.12	1000	C-2V	0.500	0.093	0.093	G-3-1/2	0.937	A-1	Min Bay.	-
A,C,H	53X	1	14.4	0.12	1000	C-2F	0.500	0.093	0.093	G-3-1/2	0.937	A-1	Min Bay.	-
A,C	57	2	14.0	0.24	500	C-2V	0.562	0.093	0.093	G-4-1/2	1.062	A-1	Min Bay.	-
A,C,H	57X	2	14.0	0.24	500	C-2F	0.562	0.093	0.093	G-4-1/2	1.062	A-1	Min Bay.	-
A,L,M,T	67	4	13.5	0.59	c	C-2R	0.812	0.093	0.093	G-6	1.437	B-1	SC Bay.	-
E,M	89	6	13.0	0.58	750	C-2R	0.750	0.093	0.093	G-6	1.437	B-1	SC Bay.	-
E,M	90	6	13.0	0.58	750	C-2R	0.750	0.093	0.093	G-6	1.437	B-2	DC Bay.	-
A,C	158	2	14.0	0.24	500	C-2V	0.500	0.093	0.093	T-3-1/4	1.062	W-2	Wedge	-
A,C	161	1	14.0	0.13	1500	C-2V	0.500	0.093	0.093	T-3-1/4	1.062	W-2	Wedge	-
A,E,H,M,T	631	6	14.0	0.63	1000	2C-2R	0.750	-	-	G-6	1.437	B-1	SC Bay.	-
E	1003	15	12.8	0.94	100	C-6	1.062	0.062	0.062	B-6	1.750	B-1	SC Bay.	90
E	1004	15	12.8	0.94	100	C-6	1.062	0.062	0.062	B-6	1.750	B-2	DC Bay.	90
D,L,P,S,T	1034	32	12.8	1.80	200	C-6	1.250	0.040	0.040	S-8	2.000	C-2	DC Bay.	90
		4	14.0	0.51	c	C-6	d	d	d	-	-	-	Indexing	-
B,D,S	1073	32	12.8	1.80	200	C-6	1.250	0.040	0.040	S-8	2.000	B-1	SC Bay.	90
B,D,S	1141	21	12.8	1.44	500	C-6	1.250	0.040	0.040	S-8	2.000	B-1	SC Bay.	90
B,D,S	1142	21	12.8	1.44	500	C-6	1.250	0.040	0.040	S-8	2.000	B-2	DC Bay.	90
A,H,M,T,L	1155	4	13.5	0.59	c	2C-2R	0.812	-	-	G-6	1.437	B-1	SC Bay.	-
B,D,H,S	1156	32	12.8	2.10	600	C-6	1.250	0.040	0.040	S-8	2.000	B-1	SC Bay.	90
D,H,L,P,S,T	1157	32	12.8	2.10	600	C-6	1.250	0.040	0.040	S-8	2.000	C-2	DC Bay.	90
		4	14.0	0.59	c	C-6	d	-d	-d	-	-	-	Indexing	-
G	1195	50	12.5	3.12	300	C-2V	1.250	0.030	0.030	RP-11	2.250	B-1	SC Bay.	90
G	1507	50	12.5	3.12	300	C-2V	0.875	0.010	0.010	RP-11	2.250	F-1	SC Prefocus	-
A,C,H	1895	2	14.0	0.27	1500	C-2F	0.562	0.093	0.093	G-4-1/2	1.062	A-1	Min Bay.	-

^a See SAE J569, Lamp Bulbs and Bases.

^b Letter designations are defined as follows: A-Instrument; B-Back-up; C-Indicator; D-Turn signal; E-Interior; G-Auxiliary service; H-heavy duty service; L-License; M-Marker, clearance, and identification; P-Parking; S-Stop; T-Tail.

^c Over 2000 hr at 14 v.

^d Filament spacing is denoted by dimension X (0.110 ± 0.020 in.) in SAE J569, Fig. 1.

^e When bulb No. B1 is operated at 5.5v, it supplies approximately 3 cp. Therefore, it may be used instead of the be used instead of the 3 cp No. 63 in commercial vehicle applications wherein relatively high voltage drop is experienced at the end of long lines.