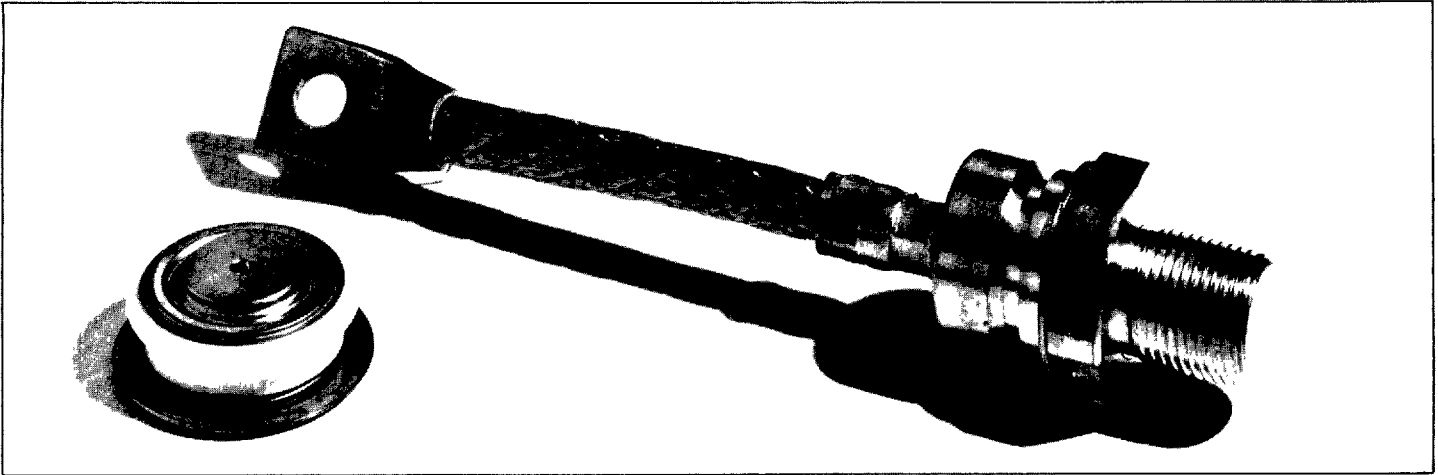


SILICON DIODES



JEDEC TYPE	IN3085-92		IN3735-44	IN4044-56				
NATIONAL TYPE NO.	A177	A180	A197	NL1931				
I_{FM} (AV) Max. average forward current (A) @ T _c °C	100 85	150 140	150 150	250 103	250 130	275 120	300 120	
I_{FSM} Max peak one cycle surge current (A)	2500	3400	3000	5000	4500	5000	5750	
I²t Max at 8.3 msec (A ² sec)	25000	46000	37500	100000	84000	100000	138000	
V_{FM} Max. peak voltage drop @ peak amps., T _J = 25°C	1.75 500	1.3 500	1.2 470	1.7 1000	1.3 785	1.35 860	1.4 950	
R_{θjc} Max. thermal resistance junction-to-case (°C/W)	.3	.3	.25	.18	.18	.18	.18	
T_J Max. junction operating temperature (°C)	125	175	200	125	200	190	200	
T_{rr} Max. reverse recovery time (nsec)	1400	—	—	2000	—	—	—	
	50 F		IN3111			IN4044	NL1931F	
	100 A	A177A	A180A	IN3085	A197A	IN3735	IN4045	NL1931A
	200 B	A177B	A180B	IN3086	A197B	IN3736	IN4047	NL1931B
	300 C	A177C	A180C	IN3087	A197C	IN3737	IN4049	NL1931C
	400 D	A177A	A180D	IN3088	A197D	IN3738	IN4050	NL1931D
REPETITIVE	500 E	A177E	A180E	IN3089	A197E	IN3739	IN4051	NL1931E
PEAK	600 M	A177M	A180M	IN3090	A197M	IN3740	IN4052	NL1931M
REVERSE	700 S	A177S	A180S		A197S		IN4053	NL1931S
VOLTAGE	800 N	A177N	A180N	IN3091	A197N	IN3741	IN4054	NL1931N
(V _{RRM})	900 T	A177T	A180T		A197T		IN4055	NL1931T
	1000 P	A177P	A180P	IN3092	A197P	IN3742	IN4056	NL1931P
	1100 PA	A177PA	A180PA		A197PA			NL1931PA
	1200 PB	A177PB	A180PB	IN5162	A197PB	IN3743		NL1931PB
	1300 PC	A177PC	A180PC		A197PC			NL1931PC
	1400 PD	A177PD	A180PD		A197PD	IN3744		NL1931PD
	1500 PE	A177PE	A180PE		A197PE			NL1931PE
Stud Torque (in-lbs)	100	150	150	300	300	300	300	
Package Type	3/8" Stud	3/8" Stud	1/2" Stud	3/4" Stud	3/4" Stud	3/4" Stud	3/4" Stud	
Package Outline Number	DO-8	DO-8	DO-30	DO-9	DO-9	DO-9	DO-9	