

HIGH SPEED (SWITCHING TYPES) STUD BASE RECTIFIERS I_O RATINGS TO 30.0 AMPERES

FEATURES:

- Hermetic Seal
- Metallurgically Bonded
- High Temperature Operation

DESCRIPTION

These hermetically sealed rectifiers can be used in switching power supply and regulators. High speed and the availability of high voltage which are not commonly found together are features most useful for military application where derating is a requirement.

ABSOLUTE MAXIMUM RATINGS:

- Junction Operating Temp. -65°C to +150°C
- Storage Temperature -65°C to +175°C

FIGURE 1

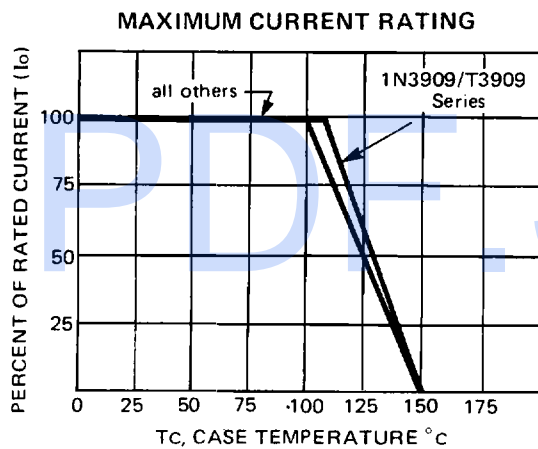


FIGURE 2

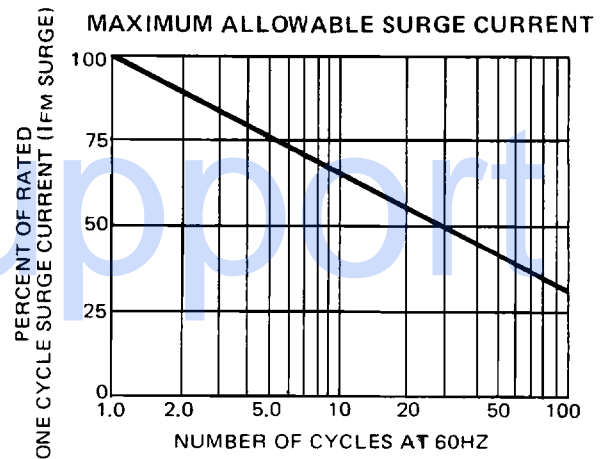
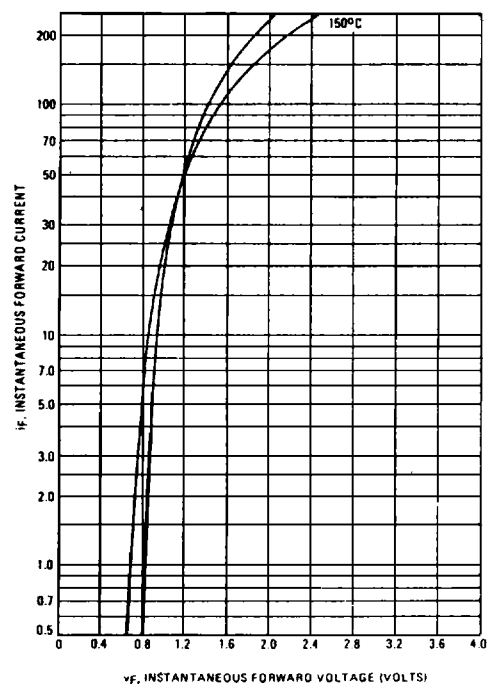
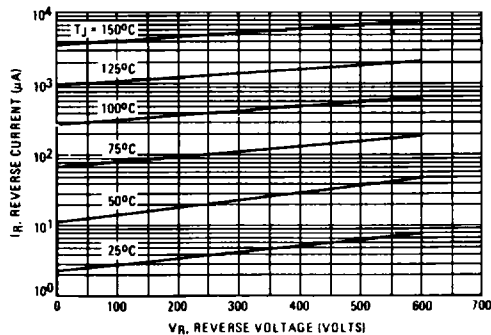


FIGURE 8 - TYPICAL REVERSE CURRENT



HIGH SPEED (SWITCHING TYPES)

STUD BASE RECTIFIERS

I_O RATINGS TO 30.0 AMPERES

CASE TYPE	TYPE NUMBER	P _{RV} VOLTS	V _F V	TEMP °C	CURRENT AMPERES	I _O AMPS	TEMP °C	I _R μA	TEMP °C	T _{RR}		I _{FSM} AMPS
										nS	RATIO	
DO4	1N3958	100	1.3	25	3.5	3	100	400	150	3000	1A - 30V	100
DO4	1N3958C	100	1.3	25	3.5	3	100	400	150	1500	1A - 30V	100
DO4	1N3959	200	1.3	25	3.5	3	100	400	150	3000	1A - 30V	100
DO4	1N3959C	200	1.3	25	3.5	3	100	400	150	1500	1A - 30V	100
DO4	1N3960	300	1.3	25	3.5	3	100	400	150	3000	1A - 30V	100
DO4	1N3960C	300	1.3	25	3.5	3	100	400	150	1500	1A - 30V	100
DO4	1N3961	400	1.3	25	3.5	3	100	400	150	3000	1A - 30V	100
DO4	1N3961C	400	1.3	25	3.5	3	100	400	150	1500	1A - 30V	100
DO4	1N3962	500	1.3	25	3.5	3	100	400	150	3000	1A - 30V	100
DO4	1N3962C	500	1.3	25	3.5	3	100	400	150	1500	1A - 30V	100
DO4	1N3963	600	1.3	25	3.5	3	100	400	150	3000	1A - 30V	100
DO4	1N3963C	600	1.3	25	3.5	3	100	400	150	1500	1A - 30V	100
DO4	6A6F	600	1.4	25	6.0	6	100	15	25	200	1A - 30V	150
DO4	6A8F	800	1.4	25	6.0	6	100	15	25	300	1A - 30V	150
DO4	6A10F	1000	1.4	25	6.0	6	100	15	25	300	1A - 30V	150
DO4	12A6F	600	1.4	25	12.0	12	100	25	25	200	1A - 30V	200
DO4	12A8F	800	1.4	25	12.0	12	100	25	25	300	1A - 30V	200
DO4	12A10F	1000	1.4	25	12.0	12	100	25	25	300	1A - 30V	200
DO4	20A6F	600	1.4	25	20.0	20	100	50	25	200	1A - 30V	250
DO4	20A8F	800	1.4	25	20.0	20	100	50	25	300	1A - 30V	250
DO4	20A10F	1000	1.4	25	20.0	20	100	50	25	300	1A - 30V	250
DO4	30A6F	600	1.4	25	30.0	30	100	80	25	200	1A - 30V	300
DO5	30A8F	800	1.4	25	30.0	30	100	80	25	300	1A - 30V	300
DO5	30A10F	1000	1.4	25	30.0	30	100	80	25	300	1A - 30V	300
DO4	1N3879	50	1.4	25	6	6	100	3000	100	200	1A - 30V	150
DO4	1N3880	100	1.4	25	6	6	100	3000	100	200	1A - 30V	150
DO4	1N3881	200	1.4	25	6	6	100	3000	100	200	1A - 30V	150
DO4	1N3882	300	1.4	25	6	6	100	3000	100	200	1A - 30V	150
DO4	1N3883	400	1.4	25	6	6	100	3000	100	200	1A - 30V	150
DO10	1N3884	50	1.4	25	12	12	100	3000	100	200	1A - 30V	150
* DO10	1N3885	100	1.4	25	12	12	100	3000	100	200	1A - 30V	150
* DO10	1N3886	200	1.4	25	12	12	100	3000	100	200	1A - 30V	150
DO10	1N3887	300	1.4	25	12	12	100	3000	100	200	1A - 30V	150
* DO10	1N3888	400	1.4	25	12	12	100	3000	100	200	1A - 30V	150
DO4	1N3889	50	1.4	25	12	12	100	3000	100	200	1A - 30V	200
* DO4	1N3890	100	1.4	25	12	12	100	3000	100	200	1A - 30V	200
* DO4	1N3891	200	1.4	25	12	12	100	3000	100	200	1A - 30V	200
DO4	1N3892	300	1.4	25	12	12	100	3000	100	200	1A - 30V	200
* DO4	1N3893	400	1.4	25	12	12	100	3000	100	200	1A - 30V	200
DO5	1N3899	50	1.4	25	20	20	100	10000	100	200	1A - 30V	250
DO5	1N3900	100	1.4	25	20	20	100	10000	100	200	1A - 30V	250
DO5	1N3901	200	1.4	25	20	20	100	10000	100	200	1A - 30V	250
DO5	1N3902	300	1.4	25	20	20	100	10000	100	200	1A - 30V	250
DO5	1N3903	400	1.4	25	20	20	100	10000	100	200	1A - 30V	250
† DO5	1N3909	50	1.4	25	30	30	100	10000	100	200	1A - 30V	250
† DO5	1N3910	100	1.4	25	30	30	100	10000	100	200	1A - 30V	250
† DO5	1N3911	200	1.4	25	30	30	100	10000	100	200	1A - 30V	250
† DO5	1N3912	300	1.4	25	30	30	100	10000	100	200	1A - 30V	250
† DO5	1N3913	400	1.4	25	30	30	100	10000	100	200	1A - 30V	250

* AVAILABLE AS JAN, JTX, JTXV to MIL-S19500/304C

† AVAILABLE AS JAN, JTX, JTXV to MIL-S-19500/308