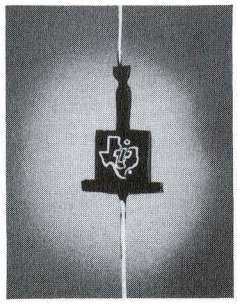
TYPES 1N538, 1N539, 1N540, 1N1095, 1N1096

DIFFUSED SILICON RECTIFIERS

TYPES 1N538, 1N539, 1N540, 1N1095, 1N1096
BULLETIN NO. DL-S 774, JULY, 1957



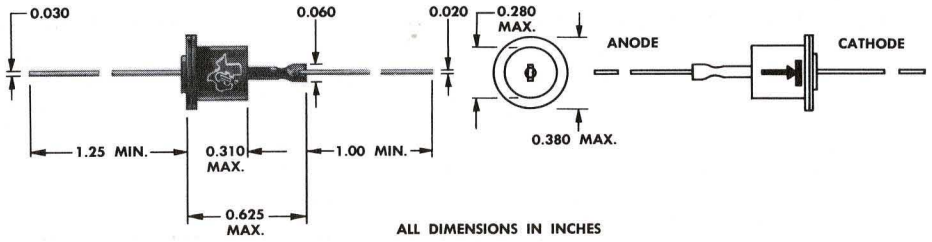
750 MILLIAMPERES 200 to 600 VOLTS PIV

Ruggedized to meet stringent military requirements

Designed for • magnetic amplifiers • universal power supplies

mechanical data

Welded case with glass-to-metal hermetic seal between case and anode lead. Approximate weight is 1.6 grams.



maximum ratings

		1N538	1N539	1N540	1N1095	1N1096	
Peak Inverse Voltage at −65 to +150°C	PIV	200	300	400	500	600	V
Average Rectified Forward Current at +50°C	I_O	750	750	750	750	750	mA
Average Rectified Forward Current at +150°C	I_O	250	250	250	250	250	mA
Recurrent Peak Forward Current at +25°C	i_l	2.5	2.5	2.5	2.5	2.5	amp
Surge Current, 1 cycle at 60 cycles at +25°C	I_{DC}	15	15	15	15	15	Amp
Operating Temperature, Ambient	T_A	−65 to +150					°C
Altitude		70,000					ft

specifications

Minimum Breakdown Voltage at +25°C	V_Z	240	360	480	600	720	V
Max. Full Cycle Avg. Reverse Current at +150°C		0.3	0.3	0.3	0.3	0.3	mA
Max. Reverse Current at PIV at +25°C	LI_b	10	10	10	10	10	μA
Max. Forward Voltage Drop at I_O=500mA; at +25°C	E_b	1.0	1.0	1.0	1.0	1.0	V

LICENSED UNDER BELL SYSTEM PATENTS

SEMICONDUCTOR-COMPONENTS DIVISION

TEXAS INSTRUMENTS
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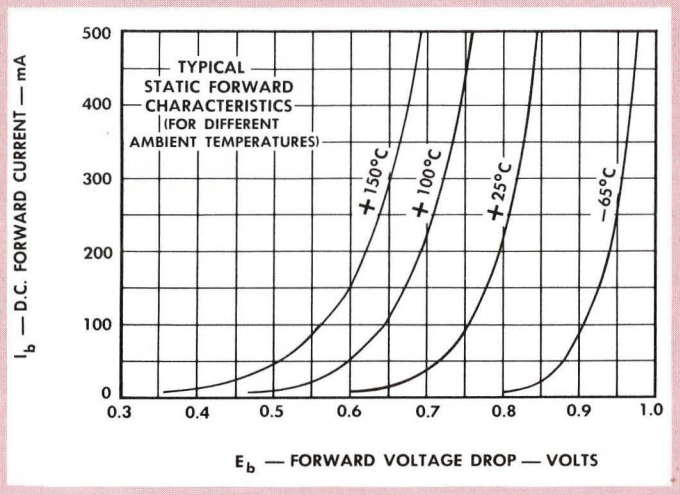
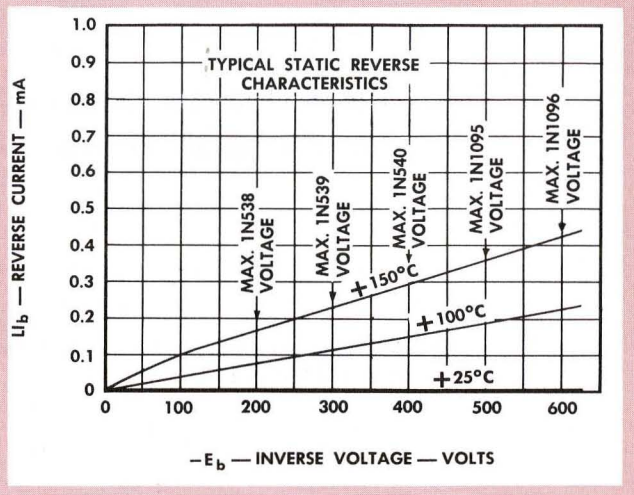
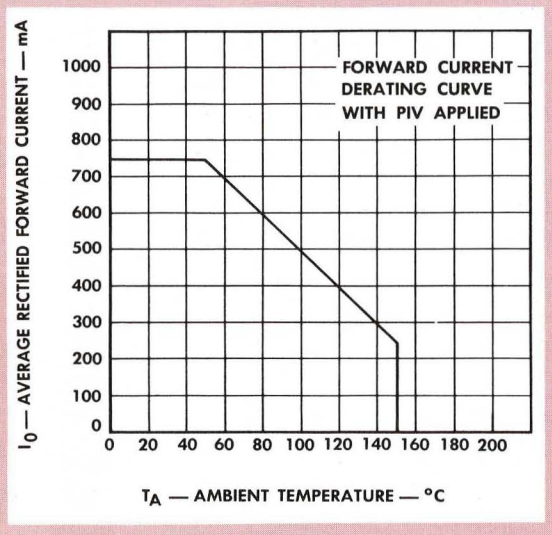
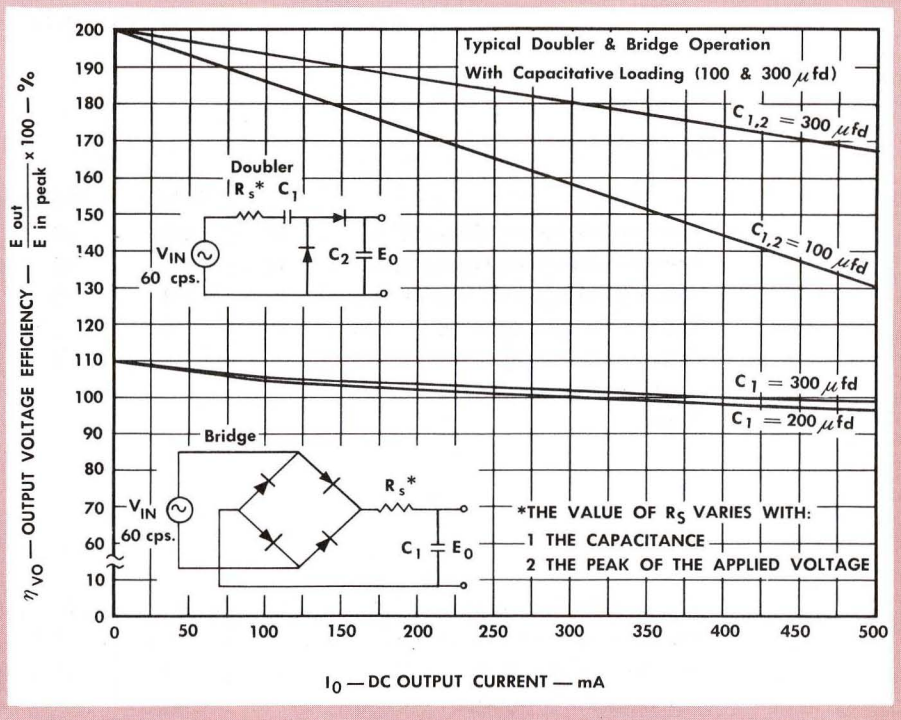
TYPES 1N538, 1N539, 1N540, 1N1095, 1N1096









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