

General Instrument Corporation is one of the oldest and largest manufacturers of germanium gold bonded diodes in the semiconductor industry today. The manufacturing facilities for the germanium gold bonded diode are at our Woonsocket, R. I. plant in which over 25,000 square feet of area is devoted to this product. This includes the process from growing the germanium ingot to the final testing and handling of the finished product.

The ability of General Instrument to manufacture reliable germanium gold bonded diodes in large quantities is primarily due to good engineering design and automated product lines. The germanium dice thickness is measured and classified with the most advanced automated dice sorters. Automated equipment is also used for dice jig loading and alloying, junction forming, final glass seal, and 100% testing of electrical parameters.

General Instrument Corporation's facilities also include a complete environmental laboratory with associated equipment required for reliability testing exceeding military specification requirements, plus over 80,000 life and burn-in test positions. Its Quality Control Department's stringent control over incoming piece parts, in-process quality supervision, outgoing quality tests, and data process control center have been a major factor in making General Instrument Corporation's germanium gold bonded diode the most reliable in the industry. To further insure the quality and reliability of its gold bonded diodes, General Instrument requires that every device shipped has successfully passed hermetic seal, thermal shock, vibration, stabilization bake, and temperature cycling.

FOR DIODES WITH CHARACTERISTICS OTHER THAN THOSE LISTED IN THIS CATALOG, CONTACT YOUR GENERAL INSTRUMENT SALES OFFICE.

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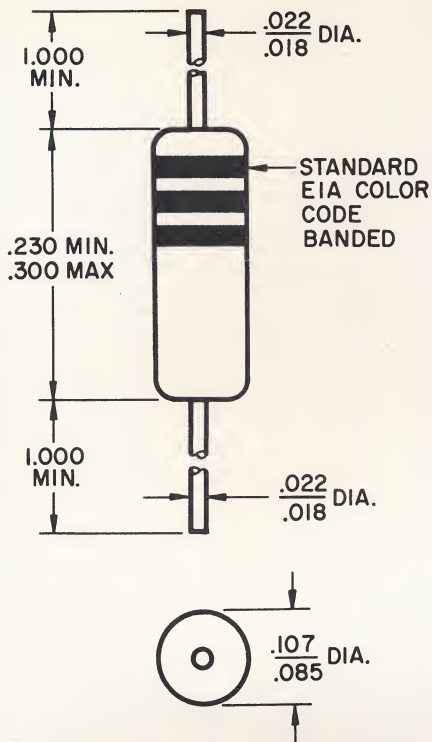
TYPE	LOW VOLTAGE	MEDIUM VOLTAGE	HIGH VOLTAGE	FAST RECOVERY	TYPE	LOW VOLTAGE	MEDIUM VOLTAGE	HIGH VOLTAGE	FAST RECOVERY	TYPE	LOW VOLTAGE	MEDIUM VOLTAGE	HIGH VOLTAGE	FAST RECOVERY	TYPE	LOW VOLTAGE	MEDIUM VOLTAGE	HIGH VOLTAGE	FAST RECOVERY
1N34			•		*1N128		•			1N909		•			DR324		•		
1N34A		•			1N191				•	1N910	•				DR325		•		
1N38			•		1N192				•	1N911	•				DR326		•		
1N38A			•		*1N198			•		1N994				•	DR327			•	
1N48		•			*1N270			•		*1N995				•	DR328		•		
1N51		•			*1N276			•	•	1N996				•	DR329		•		
1N54		•			*1N277			•		1N3203				•	DR330		•		
1N54A		•			1N279	•				1N3465		•			DR336			•	
1N55			•		*1N281		•			1N3466	•				DR337			•	
1N55A			•		1N287		•			1N3467				•	DR338		•		
1N55B			•		1N288		•			1N3468				•	DR351		•		
1N56	•				1N289		•			1N3592				•	DR352		•		
1N56A		•			1N290			•		*1N3666				•	DR362				•
1N57			•		1N291			•		1N3753		•			DR365	•			
1N58			•		1N292		•			1N3769		•			DR366		•		
1N58A			•		1N294		•			1N3773				•	DR379			•	
1N60				•	1N294A		•			1N4008				•	DR385		•		
1N61			•		1N295		•			1N4381				•	DR389		•		
1N62			•		1N297			•		1N4502	•				DR401				•
1N63			•		1N298A		•			DR128		•			DR402				•
1N64	•				1N308	•				DR207		•			DR403				•
1N66		•			1N309	•				DR209			•		DR404				•
1N67			•		1N310			•		DR211				•	DR407				•
1N67A			•		1N313			•		DR213		•			DR408				•
1N68			•		1N480				•	DR272			•		DR419				•
1N68A			•		1N490				•	DR283		•			DR422				•
1N69		•			1N497	•				DR291		•			DR427	•			
1N69A		•			1N498		•			DR292			•		DR434	•			
1N70			•		1N499		•			DR295		•			DR435	•			
1N88			•		1N500		•			DR301			•		DR437				•
1N89			•		1N501			•		DR302		•			DR459				•
1N90		•			1N502			•		DR303		•			DR463		•		
1N95		•			1N631			•		DR304			•		DR464	•			
1N96		•			1N632		•			DR305			•		DR481				•
1N96A		•			1N633			•		DR306			•		DR482				•
1N97			•		1N634			•		DR307		•			DR498				•
1N98			•		1N636		•			DR308		•			DR500				•
1N98A			•		1N770				•	DR309		•			GD400				•
1N99			•		1N771			•		DR310			•		GD401				•
1N100			•		1N771A			•		DR311			•		GD402				•
1N100A			•		1N771B			•		DR312			•		GD403				•
1N102			•		1N772		•			DR313		•			GD404				•
1N107	•				1N772A		•			DR314		•			GD405				•
1N108		•			1N773		•			DR315		•	•		GD406				•
1N116		•			1N773A		•			DR316			•		GD407				•
1N117		•			1N774		•			DR317		•			GD408				•
1N118		•			1N774A		•			DR318		•			GD409				•
1N118A		•			1N775		•			DR319		•			GD410				•
1N126		•			1N776	•				DR321			•		GD411				•
1N127			•		1N777			•		DR323		•							

* Available to Military Specifications

All G. I. Diodes are ideally suited for the following applications:

- Computer Circuitry
 - Gates
 - Steering
 - Clamps
 - Coupling
 - Triggering, etc.
- Others . . .
 - Low Current Rectifiers
 - Suppressors
 - AM Detectors
 - Modulators
 - Temperature Compensating AVC, etc.

**GENERAL
INSTRUMENT
LEAD
MOUNTED
SUB
MINIATURE
DIODE
DO-7**



**ABSOLUTE MAXIMUM RATINGS
FOR ALL TYPES**

OPERATING TEMPERATURE	-65°C to +90°C
STORAGE TEMPERATURE	100°C
LEAD TEMPERATURE $\frac{1}{16}'' \pm \frac{1}{32}''$	230°C
FROM CASE FOR 10 SECONDS	
SURGE CURRENT (ONE SEC)	400mA
CONT. POWER DISSIPATION @ 25°C	80mW
DERATING FACTOR	10mW/10°C ABOVE 25°C
AVERAGE RECTIFIED CURRENT	50mA (Typ.)

**LOW
VOLTAGE
GERMANIUM
DIODES**

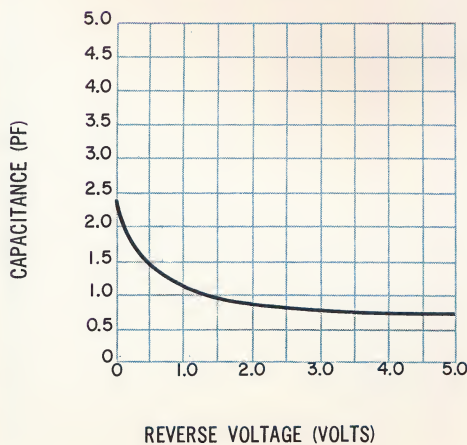
@ 25°C unless otherwise stated

TYPE	MIN. PIV (Volt)	MINIMUM FORWARD CURRENT (mA) @ +1.0 VOLT	MAX. REVERSE CURRENT		
			IR @ VR (μ a)	VR (V)	IR @ VR @ TEMP (μ a) (V) (°C)
1N56	40	15	300	30	
1N64	20	—	100	10	
1N107	15	150	200	10	
1N279	40	100	200	20	
1N308	10	300	500	8	
1N309	40	100	100	20	
1N497	30	100	20	20	
1N776	30	50	200	10	500 30
1N910	40	10mA 0.35-0.37	10	10	

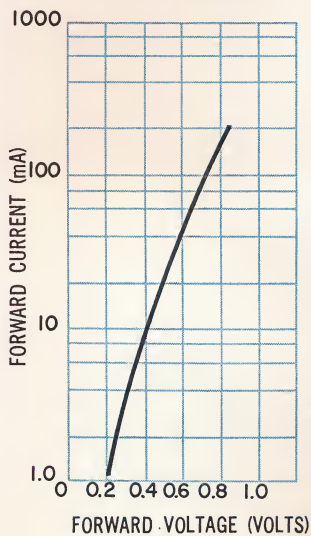
TYPE	MIN. PIV (Volt)	MINIMUM FORWARD CURRENT (mA) @ +1.0 VOLT	MAX. REVERSE CURRENT				
			IR @ VR (μ a)	VR (V)	IR @ VR @ TEMP (μ a) (V) (°C)	VR (V)	IR @ VR @ TEMP (μ a) (V) (°C)
1N911	30	10mA 0.34-0.37	10	10			
1N3466	40	200	15	30			
1N4502	20 55°C	3mA 0.3 Volts	10	6	80	6	55
DR365	20	10mA 0.40 Volts	60	6			
DR427	20	50	500	10			
DR434	30	10mA 0.37 Volts	10	10			
DR435	20	10mA 0.37 Volts	10	10			
DR464	12	50	100	5			

**TYPICAL
ELECTRICAL
CHARACTERISTICS**

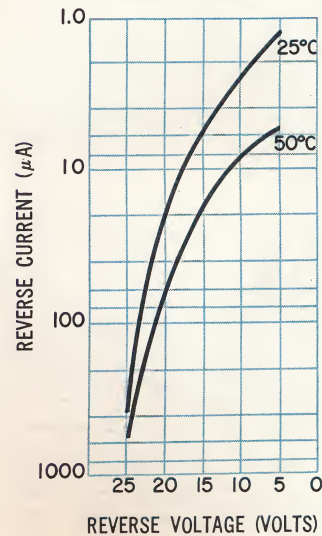
CAPACITANCE VS. REVERSE VOLTAGE



FORWARD VOLTAGE VS. FORWARD CURRENT



REVERSE VOLTAGE VS. REVERSE CURRENT

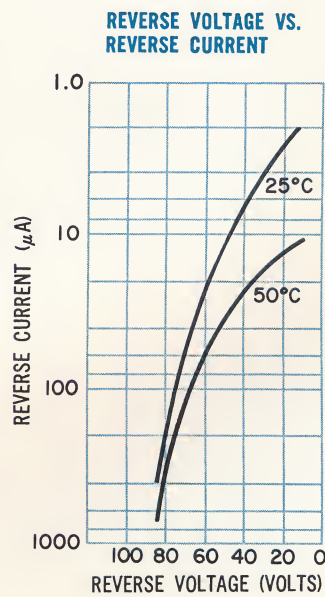
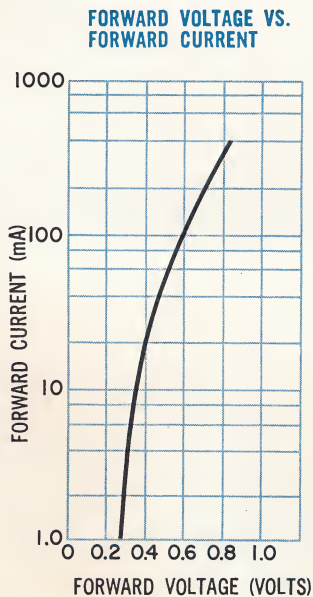
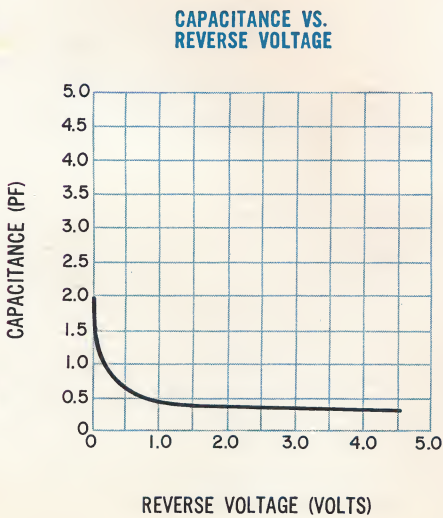


MEDIUM VOLTAGE GERMANIUM DIODES

@ 25°C unless otherwise stated

TYPE	MIN. PIV (Volt)	MINIMUM FORWARD CURRENT (mA) @ +1.0 VOLT	MAX. REVERSE CURRENT			
			IR @ VR (μa)	IR @ VR (V)	IR @ VR (μa)	IR @ VR @ TEMP (°C)
1N34A	75	5.0	30	10	500	50
1N48	85	4.0	833	50		
1N51	50	4.0	1677	50		
1N54	85	4.0	150	50		
1N54A	75	5.0	7	10	100	50
1N56A	50	15	300	30		
1N66	60	5.0	50	10	800	50
1N69	75	5.0	850	50	50	10
1N69A	75	5.0	500	50	30	10
1N90	75	5.0	800	50		
1N95	75	10	800	50		
1N96	75	20	800	50		
1N96A	75	40	500	50		
1N108	65	50	200	50		
1N116	75	5.0	100	50		
1N117	75	10	100	50		
1N118	75	20	100	50		
1N118A	75	40	100	50		
1N126	75	5.0	50	10	850	50
1N128	50	3.0	10	10		
1N281	75	100	30	10	500	50
1N287	60	20	1500	50		
1N288	85	40	350	50		
1N289	85	20	50	50		
1N292	75	100	200	50		
1N294	70	5.0	10	10	800	50
1N294A	70	5.0	10	10	800	50
1N295	50	—	200	10		
1N298A	85	30mA @ 2.0 Volts			250	40 50
1N498	60	100	25	40		
1N499	75	100	30	50		
1N500	80	100	40	60		
1N632	90	7.0	20	10	120	60
1N636	60	2.5	10	10		
1N772	80	100	50	50	500	80
1N772A	80	200	50	50	500	80
1N773	75	100	10	10	100 500	50 75
1N773A	75	200	10	10	100 500	50 75

TYPE	MIN. PIV (Volt)	MINIMUM FORWARD CURRENT (mA) @ +1.0 VOLT	MAX. REVERSE CURRENT			
			IR @ VR (μa)	IR @ VR (V)	IR @ VR (μa)	IR @ VR @ TEMP (°C)
1N774	70	100	15	10	150 500	50 70
1N774A	70	200	15	10	150 500	50 70
1N775	70	100	20	10	250 500	50 70
1N909	60	10mA @ 0.35-0.37	10	10		
1N3465	60	200	20	45		
1N3753	55	150	5	10		
1N3769	90	25 @ 0.5 Volts	5	5	20	65
DR128	60	40	100	50		
DR207	75	20	50	50		
DR213	75	100	20	50	2	10
DR283	75	50				
DR291	60	50	100	25		
DR295	60	1mA @ 0.35 Volts	4	2	50	50
DR302	80	400	100	50		
DR303	60	400	50	50		
DR307	60	200	50	20		
DR308	80	200	10	10	50	50
DR309	80	400	10	10	50	50
DR313	80	100	2	10	20	50
DR314	80	100	50	50		
DR317	80	50	50	50		
DR318	60	50	2	10		
DR319	60	50	5	10		
DR323	80	100			200	50 75
DR324	80	100			500	50 75
DR325	60	100	75	10	250	50
DR326	60	100	250	50		
DR328	80	300	100	50		
DR329	60	300	50	20		
DR330	80	300	10	10	50	50
DR338	75	40	100	50		
DR351	50	200			1500	30 50
DR352	50	10mA @ .35 Volts			300	30 50
DR366	75	50	100	50		
DR385	50	10mA @ 0.37 Volts	10	10		
DR389	60	200	50	50		
DR463	85	300	100	10	500	50



TYPICAL ELECTRICAL CHARACTERISTICS

HIGH VOLTAGE GERMANIUM DIODES

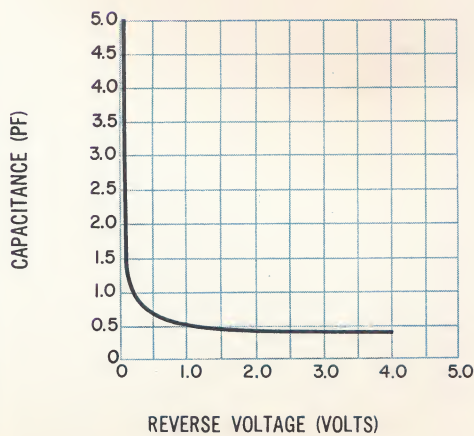
@ 25°C unless otherwise stated

TYPE	MIN. PIV (Volt)	MINIMUM FORWARD CURRENT (mA) @ +1.0 VOLT	MAX. REVERSE CURRENT			
			IR @ VR (μa)	VR (V)	IR @ VR (μa)	VR @ TEMP (°C)
1N34	100	8.5	15	10	800	50
1N38	120	4.0	6	3	500	100
1N38A	120	4.0	6	3	500	100
1N55	170	3.0	300	100	800	150
1N55A	170	4.0	500	150		
1N55B	190	5.0	500	150		
1N57	100	3.6	300	75		
1N58	115	5.0	800	100		
1N58A	120	4.0	600	100		
1N61	140	5.0	300	100	700	125
1N62	120	5.0	—	—		
1N63	125	4.0	50	50		
1N67	100	4.0	5	5	50	50
1N67A	100	4.0	5	5	50	50
1N68	120	3.0	625	100		
1N68A	130	3.0	625	100		
1N70	100	3.0	25	10	300	50
1N88	110	2.5	100	50		
1N89	100	3.5	8	5	100	50
1N97	100	10.0	8	5	100	50
1N98	100	20.0	8	5	100	50
1N98A	100	40.0	8	5	100	50
1N99	100	10.0	5	5	50	50
1N100	100	20.0	5	5	50	50
1N100A	100	40.0	5	5	50	50
1N102	125	15.0	3	25		
1N127	125	3.0	25	10	300	50
1N198	100	4.0	10/50	10/50	250	50/75
1N270	100	200	100	50		
1N277	120	100	75	75°C/10	250	50/75

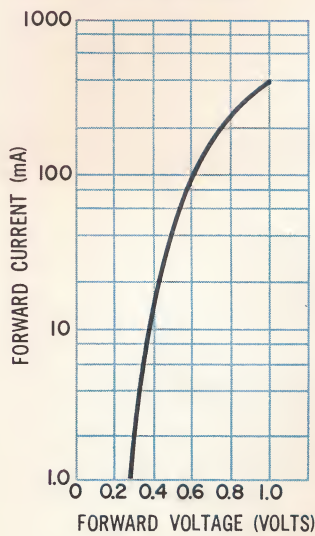
TYPE	MIN. PIV (Volt)	MINIMUM FORWARD CURRENT (mA) @ +1.0 VOLT	MAX. REVERSE CURRENT			
			IR @ VR (μa)	VR (V)	IR @ VR (μa)	VR @ TEMP (°C)
1N290	120	5.0	100	100		
1N291	120	40	100	100		
1N297	100	3.5	10	5	100	50
1N310	130	40	20	20	100	100
1N313	125	40	10	20		
1N501	100	100	40	80		
1N502	120	100	50	100		
1N633	120	125	40	20	180	90
1N634	115	50	45	45	100	100
1N771	100	100	25	50	500	100
1N771A	100	200	25	50	500	100
1N771B	100	400	25	50	500	100
DR209	125	40	100	100		
DR272	150	400	20	100		
DR292	120	4.0	200	100		
DR301	100	400	100	50		
DR304	190	200	500	150		
DR305	100	200	100	50		
DR306	100	200	100	50		
DR310	120	100	50	100		
DR311	120	100	100	100		
DR312	100	100	5	10	20	100
DR315	120	50	50	100		
DR316	100	50	100	100		
DR321	100	200			125	50/75
DR327	100	300	100	50		
DR336	120	4.0	8	5	100	50
DR337	100	40	5	5	50	50
DR379	150	200			50	20/50

TYPICAL ELECTRICAL CHARACTERISTICS

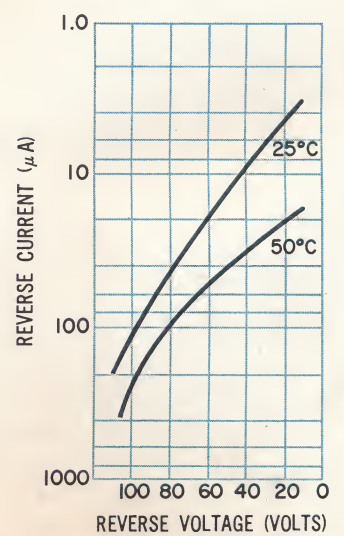
CAPACITANCE VS. REVERSE VOLTAGE



FORWARD VOLTAGE VS. FORWARD CURRENT



REVERSE VOLTAGE VS. REVERSE CURRENT



TYPE	MIN. PIV (Volt)	MINIMUM FORWARD CURRENT (mA) @ +1.0 VOLT	MAX. REVERSE CURRENT					REVERSE RECOVERY			LEVEL LIMIT		LEVEL LIMIT		REVERSE RECOVERY CIRCUIT
			IR @ VR (μ a)	VR (V)	IR @ VR (μ a)	VR (V)	@TEMP (°C)	IF (mA)	IR (mA)	VR (Volts)	I (K Ω)	NSEC	II (K Ω)	NSEC	
1N60	30	—	67	10				5	1.0		∞	80			Tektronix "S" Unit
1N191	90	5.0	25	55°C 10	125	50	55	30		35	50	500	400	3500	IBM-Y Ckt
1N192	70	5.0	25	55°C 10	250	50	55	30		35	50	500	200	3500	IBM-Y Ckt
1N276	100	40	100	50	100	10	75	5		40	80	300			JAN 256
1N480	90	5.0	50	60°C 20	125	50	60	30		35	50	500	400	3500	JAN 256
1N490	90	5.0	100	60°C 20	250	50	60	30		35	50	500	200	3500	JAN 256
1N631	90	—	20	10	120	60									Fwd. Recovery @ 50mA; 100KC < 3.5 Volts
1N770	25	15mA @ 0.5V			40	10	40	5		10	15	350	50	700	IBM-Y Ckt
1N777	70	100.0	25	55°C 10	125	50	55	30		40	50	500	400	3500	IBM-Y Ckt
1N994	8	10.0	30	6				10		6	2	2			Sampling Scope
1N995	15	10mA @ 0.5V	10	6				10		6	2	6			Sampling Scope
1N996	25	40mA @ 0.8V	15	15				5		10	20	300			JAN 256
1N3203	40	35mA @ 0.5V	50	25	20	5	55	20		4	16	300			IBM-Y Ckt
1N3467	15	20mA @ 0.5V	15	10				10		6	1	2			Sampling Scope
1N3468	15	20mA @ 0.5V	60	10				10		6	1	2			Sampling Scope
1N3592	30	2mA @ .35V 15mA @ .5V	4	4.5	20	20		2	0.2		∞	40			Tektronix "S" Unit
1N3666	80	200mA 0.5-1.0V	10 25	20 50	150	20	70	30		10	20	300			JAN 256
1N3773	25	2mA @ .35V 15mA @ .5V	4	3	20	20		2	0.2		∞	40			Tektronix "S" Unit
1N4008	25	10mA @ 0.5V	100	20	25	12	45	10	1.0		∞	70			Tektronix "S" Unit
1N4381	25	2mA 0.25V-0.35V	100 2	20 3				2	0.2		∞	100			Tektronix "S" Unit
DR211	75	200	100	50				5		40	50	300			JAN 256
DR362	50	100	50	20				40		10	20	300			JAN 256
DR401	60	20mA @ 0.5V	25	50°C 10	125	50	50	30		35	50	500	400	2000	IBM-Y Ckt
DR402	60	20mA @ 0.5V	50	50°C 10	250	50	50	30		35	50	500	200	2000	IBM-Y Ckt
DR403	60	20mA @ 0.5V	20	10	100	50		5		40	80	300			IBM-Y Ckt
DR404	60	20mA @ 0.5V	20	10	100	50		5		40	50	300			IBM-Y Ckt
DR407	75	5.0	12	6	20	10	55	5		10	50	500	500	3500	JAN 256
DR408	60	200	20	10	100	50		5		40	80	300			IBM-Y Ckt
DR419	55°C 25	10mA @ 0.5V	20	3				30		5	25	1000			JAN 256
DR422	75	50	300	50				5		40	50	3000			JAN 256
DR437	75	40mA @ 0.5V	20	55°C 4	50	10	55	30		10	10	500	50	2000	JAN 256
DR459	15	10mA @ 0.5V	200	10				5		6	20	200			JAN 256
DR481	40	100	200	20				5		20	50	1000			JAN 256
DR482	60	100	20	40				25		35	40	400			JAN 256
DR498	20	10mA @ 0.37V	10	10				5		20	40	300			JAN 256
DR500	50	20	12.5	25				5		40	500	500			JAN 256
GD400	15	10mA @ 0.5V	3	5				10		6	2.0	10			Sampling Scope
GD401	15	10mA @ 0.5V	5	5				10		6	2.0	10			Sampling Scope
GD402	45	10mA @ 0.5V	5	10	15	30		10	2		∞	80			Tektronix "S" Unit
GD403	35	10mA @ 0.5V	10	10				10	2		∞	80			Tektronix "S" Unit
GD404	35	10mA @ 0.5V	6	10	10	20		10	2		∞	60			Tektronix "S" Unit
GD405	35	10mA @ 0.5V	10	10	40	20		10	2		∞	60			Tektronix "S" Unit
GD406	60	10mA @ 0.5V	5	10	20	30		10	2		∞	125			Tektronix "S" Unit
GD407	50	10mA @ 0.5V	10	10	30	30		10	2		∞	125			Tektronix "S" Unit
GD408	75	10mA @ 0.5V	6	10	50	50		30		35	50	400			JAN 256
GD409	60	10mA @ 0.5V	10	10	100	50		30		35	50	400			JAN 256
GD410	135	10mA @ 0.5V	30	40	65	40		30		35	50	750			JAN 256
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